ST-5130

Canada and AEP Model

SONY®

SERVICE MANUAL

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SECTION 1
TECHNICAL DESCRIPTION

1-1. TECHNICAL SPECIFICATIONS

Technical specifications for the ST-5130 are given in Table 1-1.

TABLE 1-1. TECHNICAL SPECIFICATIONS

Fm Tuner Section

Antenna:	300 ohms balanced, 75 ohms unbalanced.
Tuning range:	87.5 to 108 MHz
Sensitivity:	1.5 μV (IHF usable sensitivity) 1.2 μV (S/N 30 dB)
S/N ratio:	72 dB
Capture ratio:	1 dB
Selectivity:	90 dB
Image rejection:	100 dB
I-f rejection:	100 dB
Spurious rejection:	100 dB
A-m suppression:	60 dB
Frequency response:	20 Hz to 15 kHz ± 1 dB
Separation:	42 dB at 400 Hz
Harmonic distortion:	Mono: 0.2%, IHF (400 Hz 100% Mod) Stereo: 0.3%, IHF (400 Hz 100% Mod)
19 kHz, 38 kHz suppression:	60 dB
Muting level:	less than 5 μV

A-m Tuner Section

Antenna:	Built-in ferrite bar antenna with external antenna terminal
Tuning range:	530 to 1,605 kHz
Sensitivity:	50 dB/m, built-in antenna 30 μV, external antenna
I-f rejection:	41 dB at 1,000 kHz
Harmonic distortion:	0.6%
Image rejection:	45 dB at 1,000 kHz
S/N ratio:	50 dB

Outputs

Fixed:	750 mV, 10 kΩ
Variable:	0～2V, 1.8 kΩ
Multipath:	150 mV, 18 kΩ (Vertical/Horizontal)

General

Power consumption:	Approx. 25 watts
Power requirement:	100, 120, 220, 240 volts ac, 50/60 Hz (AEP Model) 120 volts ac, 50/60 Hz (Canada Model)
Dimensions:	400 mm (width) x 149 mm (height) x 344 mm (depth) 15$\frac{3}{4}$"(width) x 5$\frac{7}{8}$"(height) x 13$\frac{9}{16}$"(depth)
Net weight:	7.5 kg (16 lb 8 oz)
Shipping weight:	10.2 kg (22 lb 4 oz)

1-2. TECHNICAL FEATURES

NEW FM FRONT END

- Dual gate MOS FET's are employed in the rf and mixer stages.
- Five-gang variable capacitor upgrades image rejection.
- Newly-developed local oscillator circuit for stable reception (Initial frequency drift is 10 kHz or less).

FM I-F SECTION

- 8 ceramic filters ensure selectivity (90 dB or more).
- Input signal level detectors for INS (Impulse Noise Suppressor) and tuner input meter.
- Muting circuit by using FET switch.

INS (Impulse Noise Suppressor) SECTION

The INS circuit consists of a noise-level selector, high-pass filter, noise amplifier, monostable multivibrator, schmitt trigger, FET gate and delay line. This circuit effectively eliminates unwanted impulse noises without degrading original signal sources.

FM MULTIPATH OUTPUT

This outputs is provided for multipath display. By using a conventional oscilloscope or multipath indicator, the condition of the received signal can be displayed.

AM TUNER

- Forward agc circuit
- New antenna circuit and CFT (ceramic filter unit) eliminate beat interference.

HEADPHONE OUTPUT (for monitoring)

1-3. CIRCUIT ANALYSIS DIGEST

The following description of newly-adapted or complicated circuits might help you in your repair work. Since stages are listed by transistor reference designation, refer to the block diagram and the schematic diagram on page 10 and 33 ~ 35.

Front End Section

(RF Amp)

Input signal is coupled to the rf amplifier Q101 through antenna tank circuit. MOS FET is employed in this stage as it has a low noise figure, wide dynamic range and large input impedance.

A triple-tuned circuit is employed between the rf amplifier and mixer. This passive coupling circuit contains no active amplifiers, so it is perfectly linear and cannot produce distortion and overload components.

(Mixer)

Rf signals and local-oscillator voltage are heterodyned in Q102 to produce the 10.7 MHz i-f output signal. A dual-gate MOS FET is well suited for this job, since gate-1 and gate-2 are isolated each other.

Input signal is applied to the gate-2, while the injection voltage of local oscillator is applied to the gate-1. As a result the effect upon local oscillator due to strong input signal is eliminated while the mixer operates at its highest conversion point of operation.

Notice that gate-1 and gate-2 are biased nearly zero voltage. Transformer IFT101 and capacitors C114 and C115 form a high "C" pi-network bandpass filter, which passes the i-f output and provides a path to ground for the other heterodyne products and oscillator harmonics.

(I-f preamplifier/limiter)

Q105 and Q106 act as an i-f preamplifier but also achieve a limiter circuit which is equivalent to 15 V peak-to-peak limiter.

Notice that the Q106 is an emitter follower and has little effect upon following ceramic filter's operation. This stage achieves a favorable signal-to-noise ratio before application to the filters in the i-f strip.

(Local Oscillator)

Q103, Q104 and oscillator tank circuit form a modified Colpitts oscillator circuit and supplies heterodying voltage to the mixer through C113.

Fig. 1-1 shows the simplified circuit and operates as follows:

Q1 accepts restored signal at the tank circuit T with high-input impedance and delivers it to the Q2 (grounded base circuit) with low output impedance, while Q2 performs phase inversion and some amplification, and then its output is fed back to the tank circuit T. Thus Q1 and Q2 form a positive feedback chain oscillating stable and clean signal. Note that its initial frequency drift is 10 kHz or less.

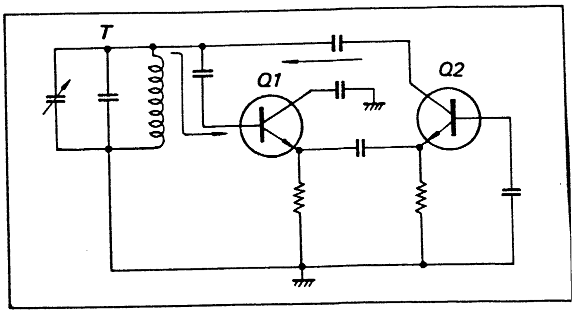


Fig. 1-1. Partial oscillator circuit

An automatic frequency control circuit is also incorporated in the oscillator circuit to eliminate frequency drift completely and the difficulty of exact tuning. Referring to Fig. 1-2, the principle of afc operation is as follows:

When the tuner is correctly tuned, the intermediate frequency is 10.7 MHz and no dc component is produced by the ratio detector as shown in the "S" curve response. So the voltage applied to diode D102 is determined solely by the positive fixed reverse bias voltage supplied by zener diode D101.

Now, assume that the local oscillator frequency changes by +Δf. This means that the new intermediate frequency is 10.7 MHz+Δf. See Fig. 1-2.

As the result a positive dc component is fed back to the anode of D102, decreasing the reverse voltage to it, and making D102's barrier capacitance increase. This decreases the local oscillator's frequency, since the series circuit composed of C124 and D102 is connected in parallel with the tank circuit of the local oscillator. Conversely, if the local oscillator frequency decreases a negative dc voltage is fed back to D102 increasing the local oscillator frequency.

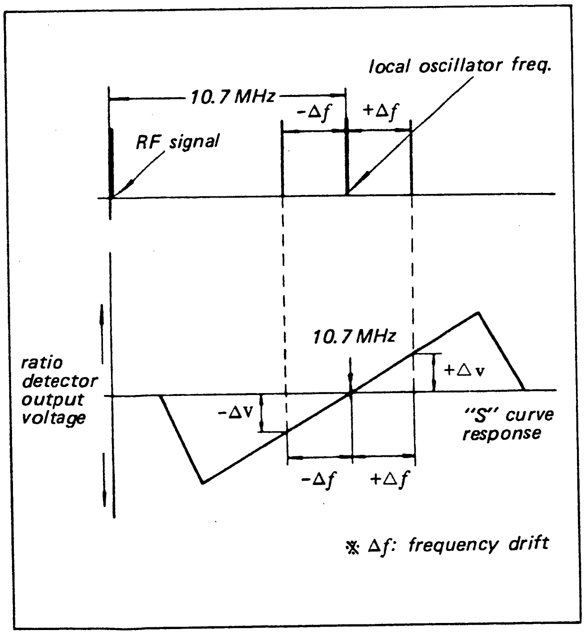


Fig. 1-2. Local oscillator's frequency drift and afc voltage relationship

Fm I-f Strip

The i-f amplifier stages consist of two pairs of direct-coupled amplifiers that provide essentially flat response. The selectivity of this section is determined by four-pairs of filters (CF201 to CF208) in the interstage-coupling path.

An unusual feature of this i-f strip is that i-f signal is extracted from the collector circuit of Q202, Q203 and Q204, and then fed to the rectifier/voltage doublers consisting of D214-D215, D212-D213, D216-D217 and D218-D219 respectively (See Fig. 1-3).

Notice that they provide three dc outputs each of which is related to a transistor's operating point and input signal level. By using the output signal level difference at each transistor, these circuits act as an input level detector for the INS circuit as will be described later.

Notice that the rectified and combined dc voltage at these circuits is proportional to the r-f signal strength for all but very-strong input signals. Therefore, the filtered dc output voltage is used to drive TUNER INPUT meter M802. RT201 calibrates the TUNER INPUT meter.

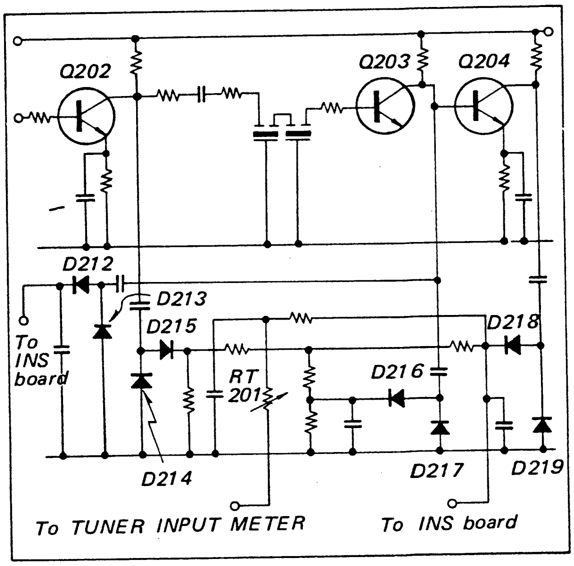


Fig. 1-3. I-f signal detectors

(Muting Circuit)

Referring to Fig. 1-4, it operates as follows:

The i-f signal is extracted from the output circuit of Q204 fed to Q208 through C225. Q208 amplifies the extracted i-f signal large enough to drive voltage doubler D209 and D210 through tuned transformer T202.

Note that D211 simply provides positive fixed bias to Q209 through D209 and D210.

T202 determines the bandwidth (about 150kHz) necessary to control the muting circuit without generating interstation noise. The output of the voltage doubler is a positive dc voltage proportional to the carrier level of weak rf signals.

Q209 and Q210 form a switching circuit and drive switching transistor Q207 through MUTING switch S4.

Q209 is normally cutoff, thus forcing Q210 into conduction. The collector of Q210 is connected to the gate of FET Q207 through MUTING switch S4. FET Q207 acts as an electronic switch which is inserted between the ratio detector and MPX decoder, and is controlled by the applied gate voltage.

With the MUTING switch ON, fm signals of average strength keep Q209 saturated, thus cutting off Q210. This causes Q207 to conduct and maintain normal operation.

Weak stations and interstation noise cannot produce sufficient dc voltage at the base of Q209 to keep it conducting. As a result, Q209 is cutoff. This saturates Q210 and cuts off Q207. Accordingly, the audio output is muted. With the MUTING switch OFF, Q207 is kept conducting regardless of the input signal since a positive bias voltage is applied to its gate. RT202 adjusts the muting level.

(Fm TUNING Meter)

A center-zero meter assures correct tuning by utilizing the ratio detector's dc output characteristic.

As indicated in Fig. 1-2, no dc voltage is produced at the junction of R242 and R244 when the tuner is correctly tuned. Deflection on the meter indicates the amount of deviation from the carrier frequency. Note that the meter will also indicate zero-reading when the tuner is not receiving any off-the-air signal.

INS (Impulse Noise Suppressor) Section

(Introduction)

Impulse noises are usually generated by means of high-voltage sparks (automobile ignition), lightening, fluorescent lamps, neon-signs, etc., having a wide range of frequency components from medium frequency up to UHF.

As a result, impulse noises having fm band components effect fm signals and are detected as pulses at the output of the tuner.

Although small impulse noise (referred to the input signal level) can be eliminated by a conventional limiter circuit, larger impulse noises cannot be thus eliminated. This is because large impulse noises affect the fm signal's amplitude and phase. Though amplitude changes are eliminated by the limiter stages, phase shift due to impulse noises cannot be eliminated, and therefore it causes audible noise at detector's output.

To solve this problem the INS circuit was developed. Fig. 1-5 shows how the INS circuit removes impulse noises of 1 μsec to 10 μsec duration. Though some aberration results in the signal treated by the INS circuit, this cannot be noticed by the listener.

(Operation)

Referring to Fig. 1-6 (block diagram), it operates as follows:

Impulse noise components in the input signal are detected at both the fm i-f section and ratio detector, and then applied to the noise selector circuit. The

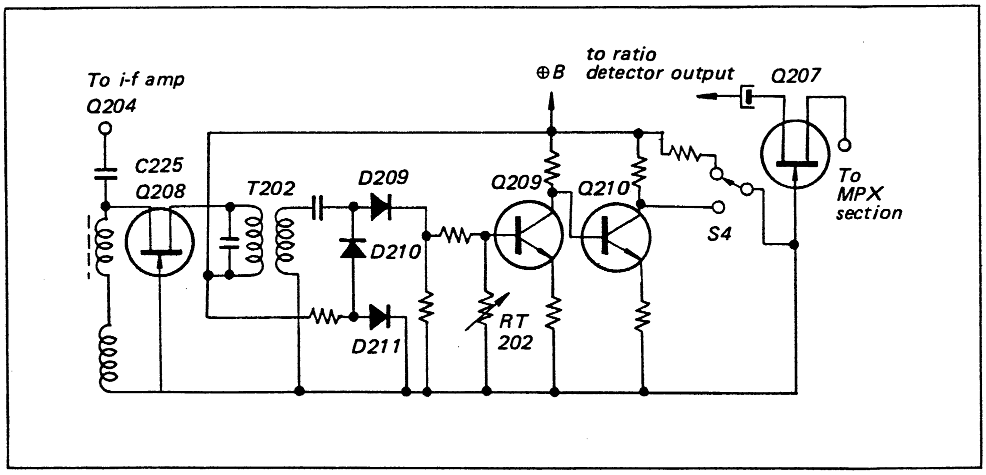


Fig. 1-4. Simplified muting circuit

noise selector circuit selects the impulse noise component in a manner dependent on the input signal level. A-m component detection is useful at low signal levels (35 dB or less), while f-m component detection is useful at strong signal levels.

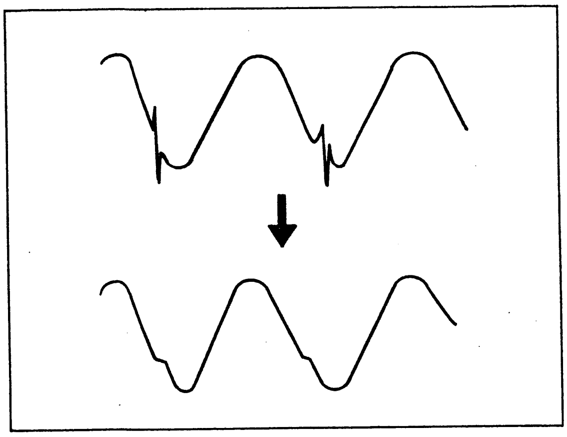


Fig. 1-5. Example of INS operation

The selected impulse noise is fed to the high-pass filter, and only the impulse noise is extracted and amplified at the noise amplifier.

The amplified impulse noise drives the monostable multivibrator, generating one pulse (50 μsec) for one input drive signal.

The output pulse is fed to the schmitt trigger circuit through an integrator. The schmitt trigger circuit generates both negative and positive pulses which are used to eliminate the impulse noise appearing at the MPX decoder output. The FET gate circuit at the MPX decoder output is controlled by the negative schmitt trigger pulse. The positive schmitt trigger pulse is fed to the 19 kHz amp gate circuit to reduce impulse noise effect on the 19 kHz signal.

Notice that a delay line is employed in the audio signal path, compensating for the time delay of the gate pulse due to INS processing. A 16 kHz low-pass filter smooths the edge of the gated signal.

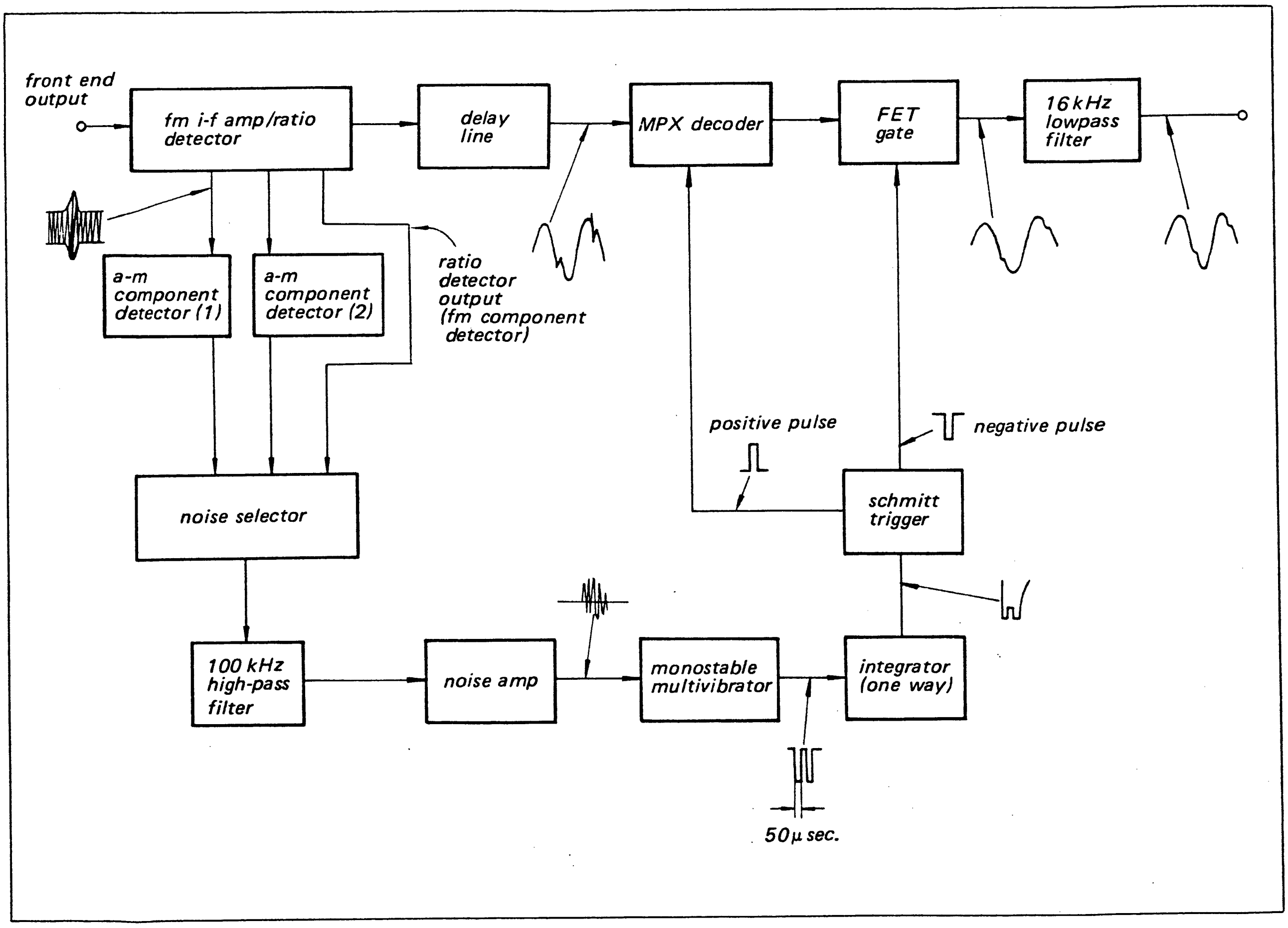

front end output
fm i-f amp/ratio detector
delay line
MPX decoder
FET gate
16kHz lowpass filter
a-m component detector (1)
a-m component detector (2)
ratio detector output (fm component detector)
positive pulse
negative pulse
schmitt trigger
noise selector
100 kHz high-pass filter
noise amp
monostable multivibrator
integrator (one way)
50μ sec.

Fig. 1-6. Block diagram of INS circuit

(Noise Selector Circuit)

Q501-Q505 select the impulse noises to be amplified and used to make gate pulses in the following stages.

Two kinds of noise detectors, one for a-m components and the other for fm components, are employed. The a-m component detector (D212, D213) detects the amplitude changes in the i-f amplifier signal due to impulse noises. The fm component detector (ratio detector) detects the phase changes in the i-f amplifier signal due to impulse noises.

Notice that the a-m component detector connot detect the noise when the input signal level is higher than the value where the limiter operation removes all the amplitude components in the fm i-f signals, while the fm component detector detects all except weak noise signals.

Q502 and Q503 form a schmitt trigger driven by Q501. The input signal levels are detected by voltage doublers (D214, D215, and D216, D217, and D218 and D219) in the fm i-f section, and applied to the base circuit of Q501, thus determining the triggering level of the schmitt trigger.

Q504 and Q505 act as gate circuit controlled by the schmitt trigger (Q503), selecting the noise components to be amplified at following stages.

Q504 gates a-m component noise, while Q505 gates fm component noise.

Note that Q504 is an NPN type transistor and Q505 is a PNP type transistor. This means that when Q504 is ON, Q505 is OFF and vice versa, since the output of the schmitt trigger is applied to their base circuit.

The operation of the schmitt trigger and gate circuits is as follows:

Input signal level	Q503	Q504	Q505
High	ON	OFF	ON
Low	OFF	ON	OFF

(Buffer amp and Noise filter)

Q506 acts as a buffer amplifier for the noise selector circuit. Q506's gain compensates for the insertion loss of the following sharp-cutoff high-pass filter which separates noise components from the selected noise signals. (100 kHz or more)

Fig. 1-7 shows the characteristics of this high-pass filter.

(Noise Amp)

Q507, Q508 and Q509 form a noise amplifier.

Q507 and Q508 are basically RC coupled amplifiers and Q509 is an emitter follower.

This amplifies the input noise signals to the level required for triggering the following monostable multivibrator.

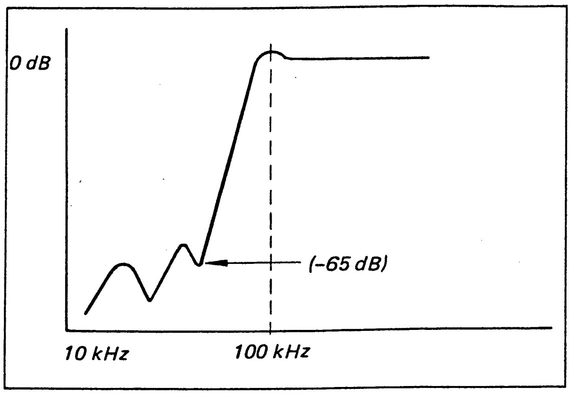


Fig. 1-7. Characteristic of 100 kHz high-pass filter

(Monostable multivibrator)

Q510 and Q511 generate negative pulses only when a trigger pulse is applied to the collector circuit of Q510 through diode D502. D502 supplies only negative going pulse to the Q510. The approximately 50 μs pulse width is determined by the RC time constant of R537 and C519.

(Schmitt Trigger Circuit)

Q512 and Q513 form a schmitt trigger circuit generating gate pulses to control the FET gate at the MPX decoder in accordance with the trigger pulses generated by the monostable multivibrator circuit.

Q512 is normally ON and Q513 is normally OFF. The input trigger pulse reverses this ON/OFF condition during its pulse duration. To ensure operation for impulse noise having a rather long pulse width (such as noises generated by a dc motor or generator commutator) integration circuit (R541 and C521) is employed. Therefore, various kinds of gate pulses meeting with the input noise pulses are generated at schmitt trigger circuit as shown in Fig. 1-8.

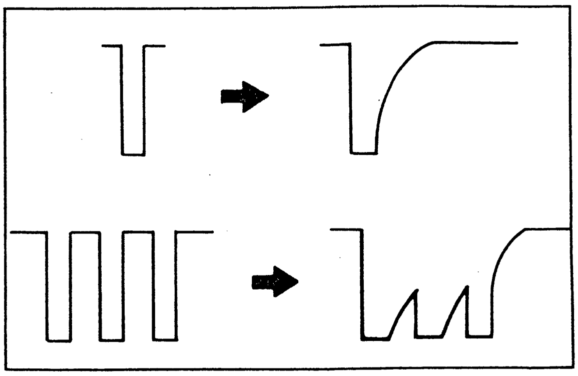


Fig. 1-8. Effect of integrator circuit

Notice that two gate pulses are generated by the schmitt trigger circuit. One is a positive pulse at D504, the other is a negative pulse at series diode D505/D506. The positive pulse is used to control the gate transistor Q402 at the source circuit of Q401 (19 kHz amplifier). The negative pulse is used to control the FET gate as previously described.

(Gate Circuit)

Q405 (Q406) is an FET gate which is controlled by the negative-going pulse generated by the schmitt trigger. The gate circuit removes impulse noise from the audio signal as shown in Fig. 1-9. Normally, positive bias voltage is applied to the gate circuit of Q405 (Q406), keeping it in conduction so it has no effect on audio signals. When impulse noise appears, a gate pulse whose width is the same as the impulse noise is applied to the gate circuit of Q405 (Q406), cutting off the impulse noise.

Note that C415 (C416) acts as a memory capacitor which maintaining the dc conditions prevailing before gate pulse was applied, as shown in Fig. 1-9.

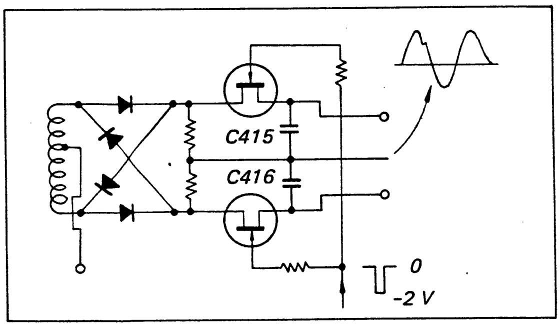


Fig. 1-9. FET gate circuit

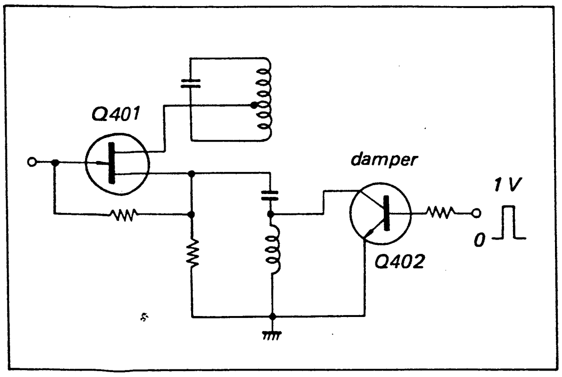


Fig. 1-10. 19 kHz damper circuit

Q402 shorts the source circuit of Q401 (19 kHz amp) during the duration of the positive gate pulse applied to the base circuit by the schmitt trigger circuit, reducing the 19 kHz amp gain. (See Fig. 1-10) This prevents ringing of the 19 kHz amp due to impulse noise, and interference caused by this ringing.

(Delay Line)

Though the audio signal and INS signals take different routes, they must arrive coincident in time at the FET gate of the MPX decoder. Since the INS circuit causes a time delay, the audio signal must be delayed by means of the delay line.

MPX Decoder Section

STEREO Lamp circuit

The STEREO lamp lights when an fm-stereo signal is received. The emitter of Q403 is connected to the base of Q404, which is normally cut-off.

When a composite stereo signal is applied to the multiplex decoder, the 38-kHz pulses produced at the output of the frequency doubler yield a higher average current flow through Q403. This forces Q404 into conduction, lighting the STEREO lamp.

(Multiplex Demodulator)

T401 (switching transformer) and four diodes form a balanced bridge arrangement. This system has the advantage of cancelling residual rf components (38-kHz signal, some 19-kHz signal, and higher-order harmonics of these frequencies). Notice that the 38-kHz switching signal is transformer-coupled to the diode bridge to supply sampling drive for the demodulator, while a composite stereo signal is applied to the center tap of the secondary winding of T401. "L" and "R" components are developed at each side of the bridge as the result of demodulation, see Fig. 1-11.

In the monaural mode, diodes D405 and D406 are forward biased by supply voltage through R415, STEREO lamp, R414, R413 and R420 so these diodes merely act as small resistances. Under this condition, the monaural signal is applied to both "L" and "R" audio amplifiers.

Multipath Output

Multipath reception will be displayed on the CRT connecting the conventional oscilloscope or multipath indicator to these outputs. Multipath reception causes the increase in back-ground noise level, distortion at high frequency, or stereo separation reduction. The a-m component of the fm i-f signal detected by voltage doublers is extracted, and then applied to the VERTICAL terminal, while the audio signal is extracted from the ratio detector output, and fed to the HORIZONTAL terminal. Fig. 1-12 shows typical CRT displays.

Multipath reception will be corrected by using a directional fm antenna or coaxial cable. Rotating the antenna is very effective.

A-M Tuner Section

(A-m I-f Strip)

The CFT (combination IFT with ceramic filter) and low Q IFT are employed to obtain sharp selectivity (35 dB at 455 kHz ± 10 kHz) causing superior spurious response.

Note that no adjustment is required for the CFT and IFT in the field even if they are replaced.

(AGC circuit)

There are two feedback loops ensuring proper agc operation. Referring to Fig. 1-13, it works as follows:

The a-m i-f signal is extracted from the collector circuit of Q304 through C314 and rectified by diode D301. The output of diode D301 is a positive dc voltage roughly proportional (not exactly due to agc action) to the carrier levels of the input signal. This is fed to the base circuit of Q304 through a filter circuit controlling the bias current of Q304 and thereby its emitter voltage. The emitter voltage of Q304 is fed back to the base circuit of Q302 through a filter

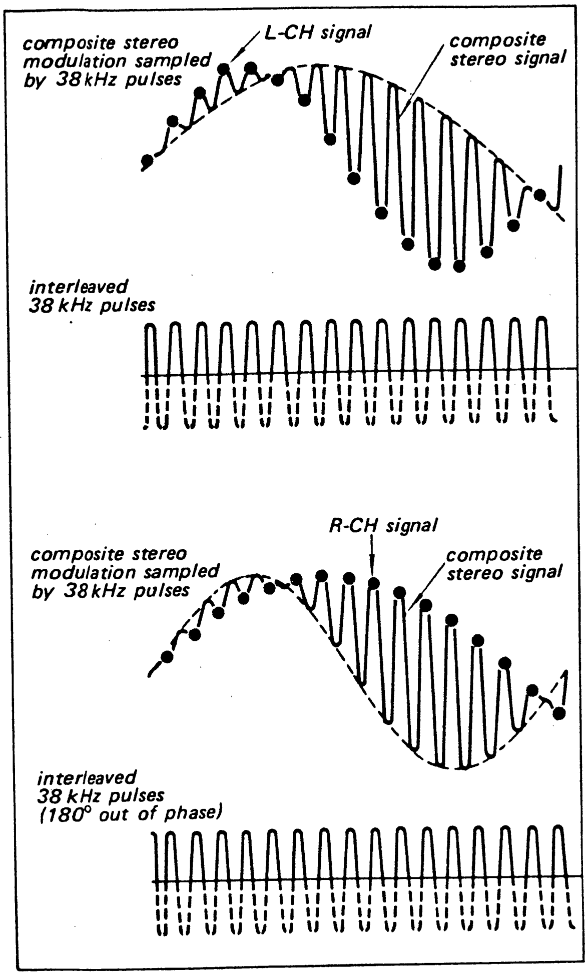

composite stereo modulation sampled by 38 kHz pulses
L-CH signal
composite stereo signal
interleaved 38 kHz pulses
R-CH signal
composite stereo modulation sampled by 38 kHz pulses
composite stereo signal
interleaved 38 kHz pulses (180° out of phase)

Fig. 1-11. Stereo demodulation operation

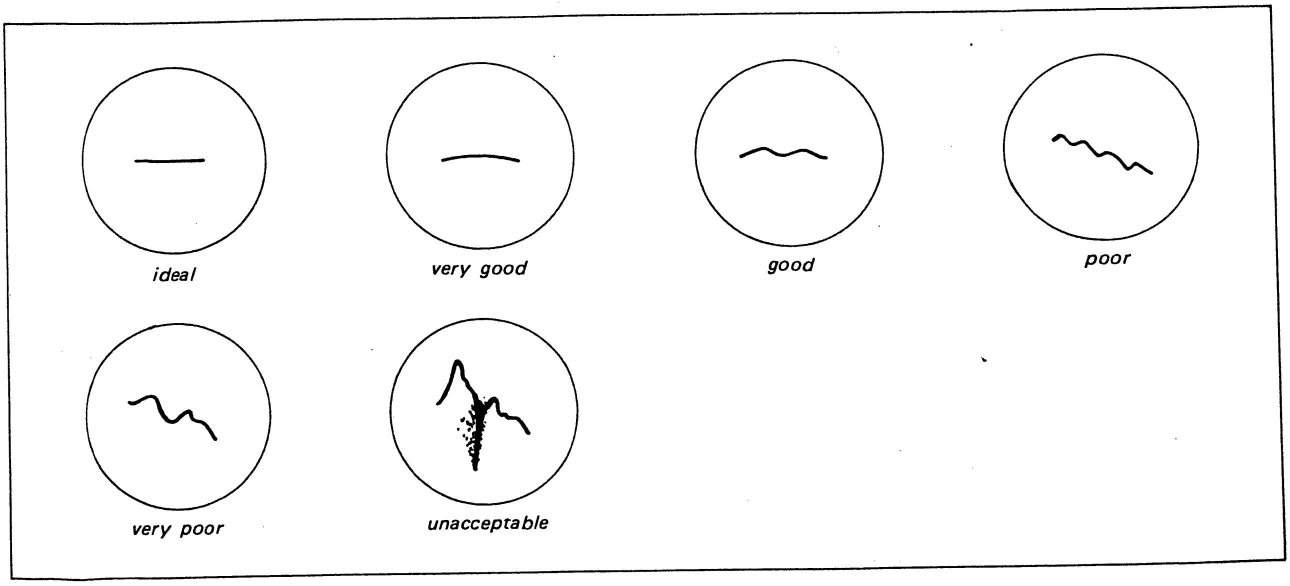

ideal
very good
good
poor
very poor
unacceptable

Fig. 1-12. Typical multipath display

circuit. As the Q302 is in series with the emitter resistor of mixer Q301, it controls the emitter current of Q301. The emitter current vs. hfe characteristic of Q301 is such that current gain (hfe) decreases due to current flow increase.

Thus a strong signal increases the current flow at the mixer stage, thereby decreasing the overall gain and vice versa.

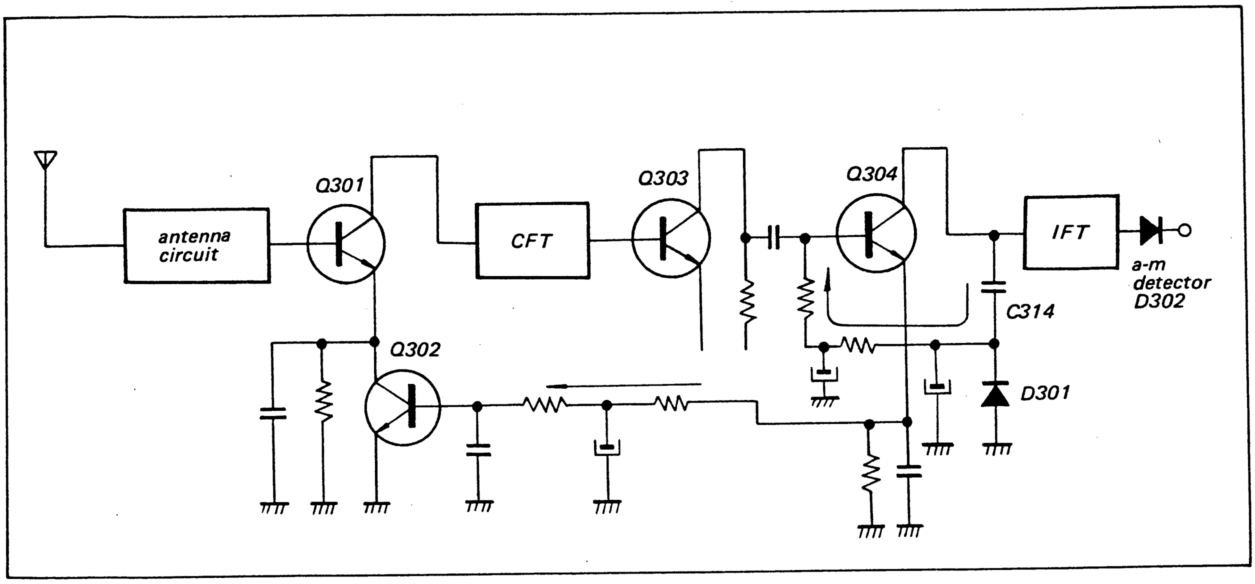
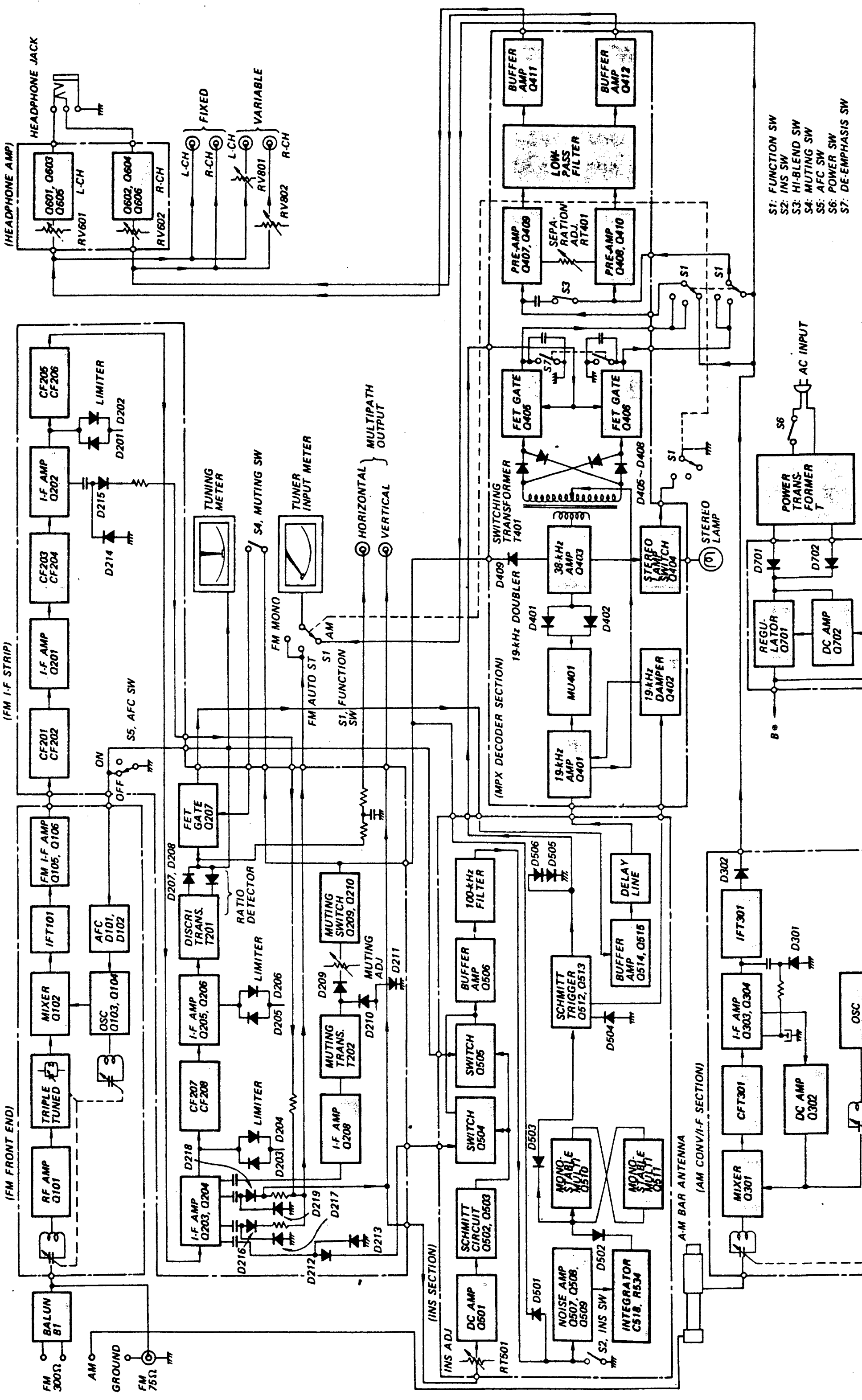

Q301
antenna circuit
CFT
Q303
Q304
IFT
a-m detector D302
C314
Q302
D301

Fig. 1-13. Simplified AGC circuit

1-4. BLOCK DIAGRAM


(HEADPHONE AMP)
HEADPHONE JACK
Q601, Q603 Q605 L-CH
Q602, Q604 Q606 R-CH
RV601
RV602
L-CH
R-CH
FIXED
VARIABLE
RV801
RV802
BUFFER AMP Q411
BUFFER AMP Q412
LOW-PASS FILTER
PRE-AMP Q407, Q409
PRE-AMP Q408, Q410
SEPA-RATION ADJ. RT401
S3
S1
S7
FET GATE Q406
FET GATE Q408
SWITCHING TRANSFORMER T401
D405~D408
D409
38-kHz AMP Q403
STEREO SWITCH Q404
STEREO LAMP
19-kHz DOUBLER
D401
D402
MU401
19-kHz DAMPER Q402
19-kHz AMP Q401
(MPX DECODER SECTION)
S1: FUNCTION SW
S2: INS SW
S3: HI-BLEND SW
S4: MUTING SW
S5: AFC SW
S6: POWER SW
S7: DE-EMPHASIS SW
AC INPUT
S6
POWER TRANS-FORMER T
D701
D702
D703
REGU-LATOR Q701
DC AMP Q702
DC AMP Q703
B+
(FM I-F STRIP)
CF205 CF206
LIMITER
D201
D202
I-F AMP Q202
D215
D214
CF203 CF204
I-F AMP Q201
CF201 CF202
S5, AFC SW
ON
OFF
TUNING METER
S4, MUTING SW
TUNER INPUT METER
HORIZONTAL
VERTICAL
MULTIPATH OUTPUT
FM MONO
AM
FM AUTO ST
S1, FUNCTION SW
(FM FRONT END)
FM I-F AMP Q105, Q106
IFT101
AFC D101, D102
MIXER Q102
OSC Q103, Q104
TRIPLE TUNED
RF AMP Q101
BALUN B1
FM 300Ω
AM
GROUND
FM 75Ω
FET GATE Q207
D207, D208
DISCRI TRANS. T201
RATIO DETECTOR
I-F AMP Q205, Q206
LIMITER
D205
D206
CF207 CF208
LIMITER
D203
D204
D218
I-F AMP Q203, Q204
D216
D219
D217
D212
D213
MUTING SWITCH Q209, Q210
D209
MUTING ADJ
D211
D210
MUTING TRANS. T202
I-F AMP Q208
(INS SECTION)
INS ADJ
RT501
DC AMP Q501
SCHMITT CIRCUIT Q502, Q503
SWITCH Q504
SWITCH Q505
BUFFER AMP Q506
100-kHz FILTER
D506
D505
SCHMITT TRIGGER Q512, Q513
D504
DELAY LINE
BUFFER AMP Q514, Q515
D503
MONO-STABLE MULTI Q510
MONO-STABLE MULTI Q511
D501
NOISE AMP Q507, Q508, Q509
D502
INTEGRATOR C518, R534
S2, INS SW
A-M BAR ANTENNA
(AM CONV/I-F SECTION)
D302
IFT301
D301
I-F AMP Q303, Q304
OSC Q305
CFT301
DC AMP Q302
MIXER Q301

SECTION 2
DISASSEMBLY

WARNING

Unplug the ac power cord before starting any disassembly or replacement procedures.

2-1. TOOLS REQUIRED

The following tools are required to perform disassembly and replacement procedures on the ST-5130.

1. Screwdriver, Phillips-head
2. Screwdriver, 1/8" blade (3 mm)
3. Pliers, long-nose
4. Diagonal cutters
5. Wrench, adjustable
6. Tweezers
7. Electric drill
8. Drill bits
9. Prick punch
10. Hammer, ball-peen
11. Soldering iron, 40 ~ 150 watts
12. Solder, rosin-core
13. Cement solvent
14. Cement, contact

2-2 HARDWARE IDENTIFICATION GUIDE

The following chart will help you to decipher the hardware codes given in this service manual.

Note: All screws in the ST-5130 are manufactured to the specifications of the International Organization for Standardization (ISO). This means that the new and old screws are not interchangeable because ISO screws have a different number of threads per mm compared to the old ones. The ISO screws have an identification mark on their heads as shown in Fig. 2-1.

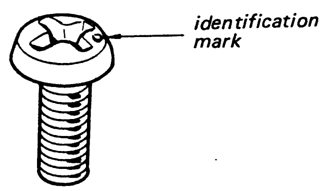


Fig. 2-1. ISO screw

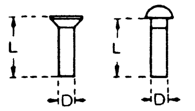
– Hardware Nomenclature –

P	– Pan Head Screw	⊕
PS	– Pan Head Screw with Spring Washer	⊕
K	– Flat Countersunk Head Screw	⊕
B	– Binding Head Screw	⊕
RK	– Oval Countersunk Head Screw	⊕
T	– Truss Head Screw	⊕
R	– Round Head Screw	⊕
F	– Flat Fillister Head Screw	⊖
SC	– Set Screw	⊖
E	– Retaining Ring (E Washer)	

W – Washer
SW – Spring Washer
LW – Lock Washer
N – Nut

– Example –

⊕ P 3x10
Type of Slot
Length in mm (L)
Diameter in mm (D)
Type of Head



2-3 TOP COVER AND BOTTOM PLATE REMOVAL

1. Top cover can be freed by removing two machine screws at both sides.
2. Bottom plate can be freed by removing the five self-tapping screws as shown in Fig. 2-2.

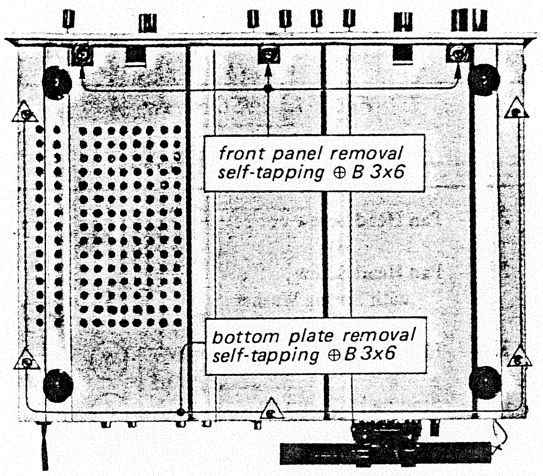


Fig. 2-2. Bottom view

2-4. FRONT PANEL REMOVAL

1. Remove all the control knobs by pulling them off.
2. Remove the three self-tapping screws at the front bottom of the chassis as shown in Fig. 2-2.
3. Remove the three screws securing the front panel to the front subchassis from the back as shown in Fig. 2-3. This frees the front panel.

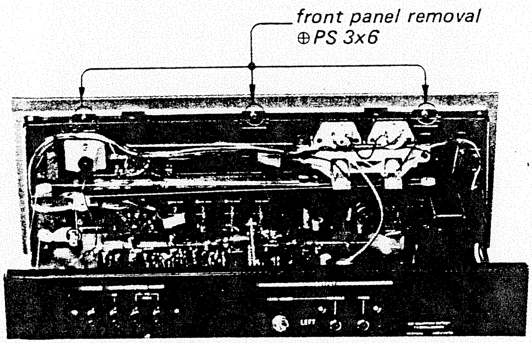


Fig. 2-3. Front panel removal

2-5. DIAL CORD RESTRINGING

Preparation

1. Cut a 1,700 mm (70 inch) length of 0.3 mm (1/64 inch) diameter dial cord.
2. Tie one end of the cord to the coil spring as shown in Fig. 2-4.
3. Rotate the tuning-capacitor drive drum fully clockwise (minimum capacitance position).

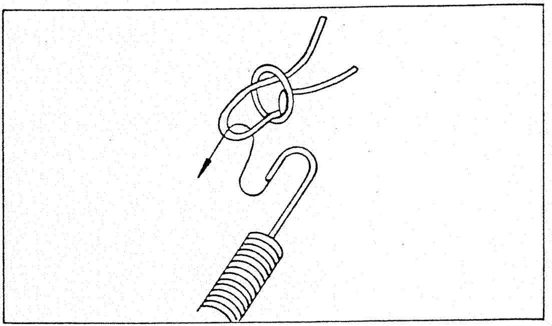


Fig. 2-4. Tying square knot to the coil spring

Procedure

While referring to Fig. 2-5, proceed as follows:

1. Hook the spring to one hole of the drum as shown in Fig. 2-6.
2. Run the cord through the slot in the rim of the drum and wrap clockwise turn as shown in Fig. 2-7.
3. Run the cord over pulley "A", and then wrap two counterclockwise turns around the tuning shaft.
4. Run the cord over pulleys "B", "C" and "D", then wrap two clockwise turn around the drum from outer groove to inner groove as shown in Fig. 2-7.
5. Pass the doubled end of the cord through the eyelet, then hook it to the spring as shown in Fig. 2-8.
6. Tighten the cord, then squeeze the eyelet so that the spring is under tension. Make a knot in the cord end to keep it from slipping out of the eyelet. See Fig. 2-9.

7. After completing the dial cord stringing, make sure that the tuning system works properly. Apply a drop of contact cement to the finish point.
8. Put the dial pointer on the cord as shown in Fig. 2-10, and then tune the set to the local fm station. Move the dial pointer to the position where the pointer indicates the local station's carrier frequency. Apply a drop of contact cement to it.

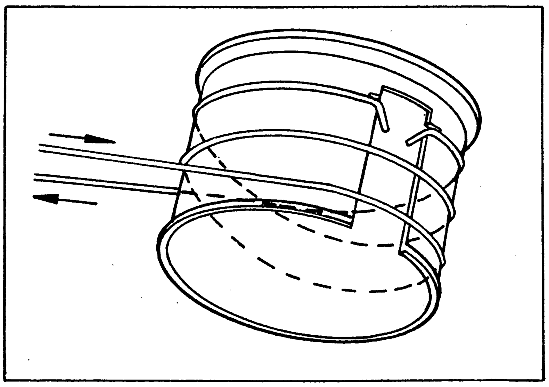


Fig. 2-7. Wrapping the dial cord

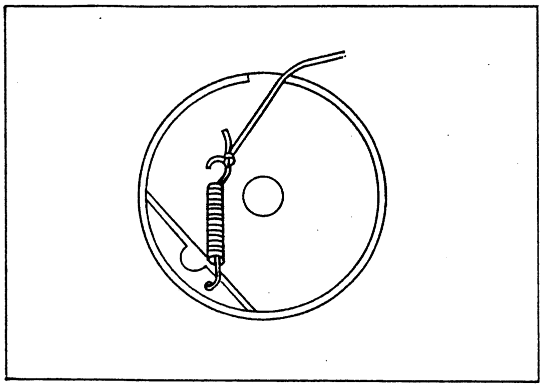


Fig. 2-6. Coil spring installation

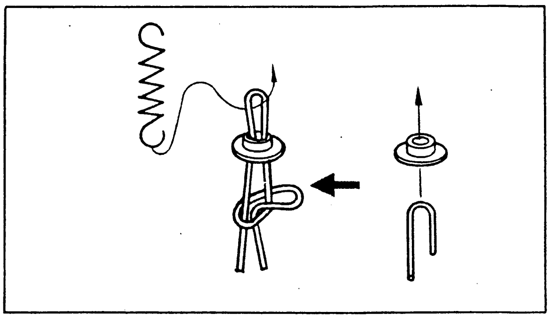


Fig. 2-8. Finishing dial cord stringing

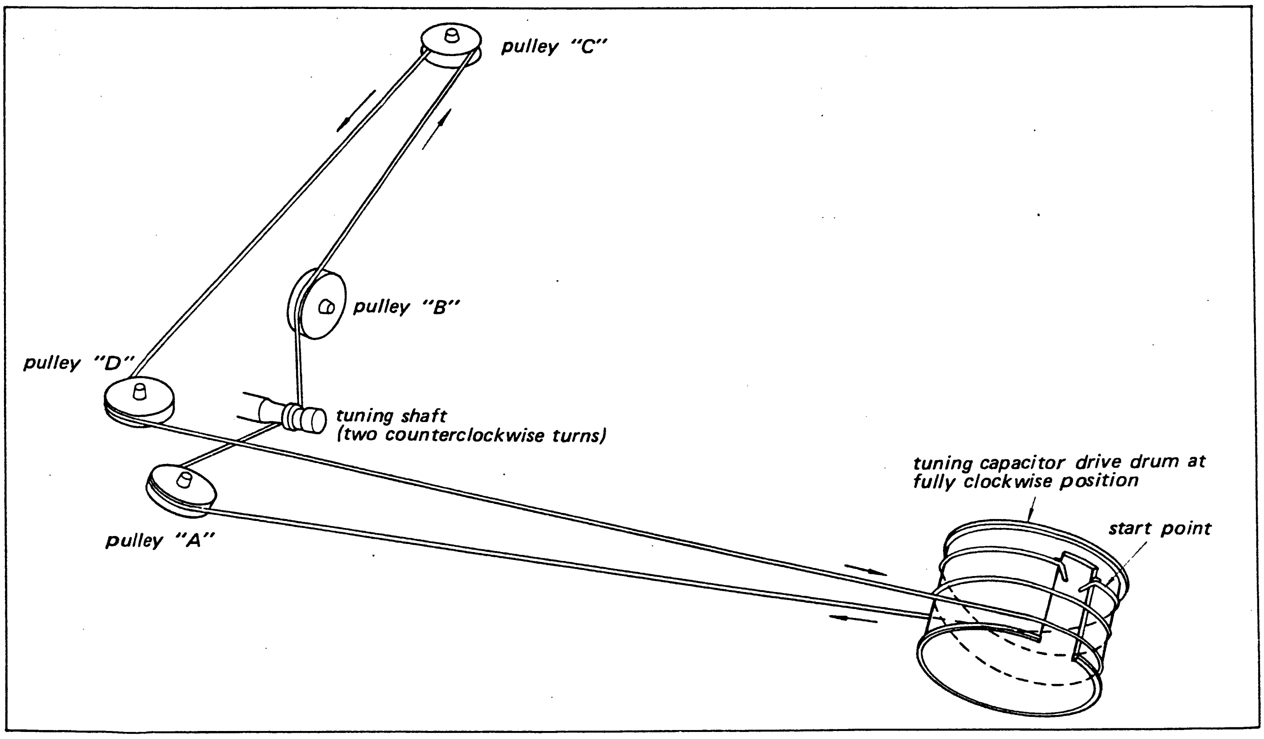

pulley "C"
pulley "B"
pulley "D"
tuning shaft
(two counterclockwise turns)
tuning capacitor drive drum at fully clockwise position
start point
pulley "A"

Fig. 2-5. Dial cord stringing

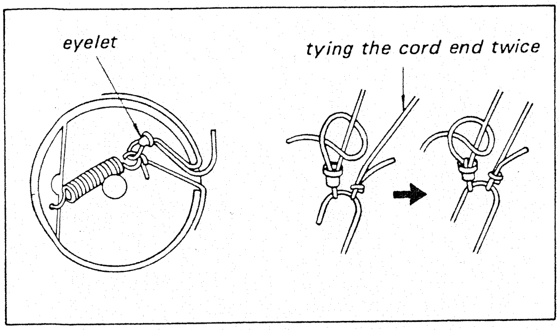


Fig. 2-9. Detail of the cord end

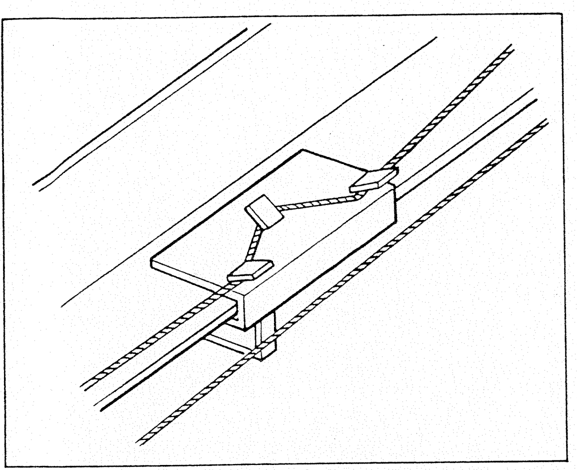


Fig. 2-10. Dial pointer installation

2-6. PILOT LAMP REPLACEMENT

Prepare for replacing any of the pilot lamps by removing the top cover as described in Procedure 2-3.

Stereo Lamp

1. Pull the lamp from its rubber holder.
2. Unsolder the defective lamp leads from the connecting terminals, as shown in Fig. 2-11, and then install a new one.

Meter Lamp

1. Remove the meter-lamp sockets by pulling them off, and then install the replacement lamp.

Dial Lamp

1. Remove the front panel as described in Procedure 2-4.
2. Pry out the defective dial lamp as you would do a cartridge fuse.
3. Install the replacement dial lamp.

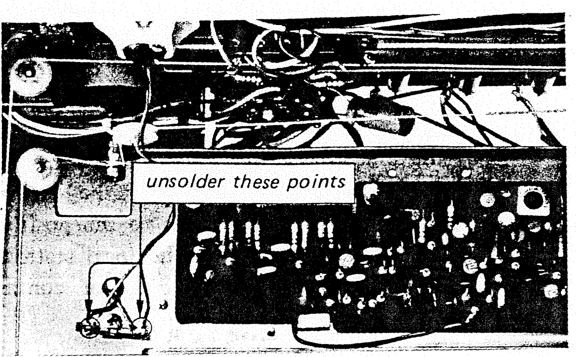


Fig. 2-11. Stereo lamp replacement

2-7. METER REPLACEMENT

1. Remove the two screws securing the meter lamp shade as shown in Fig. 2-12. This frees the shade and the meters.
2. Unsolder the leads from the defective meter, and then install a new one.

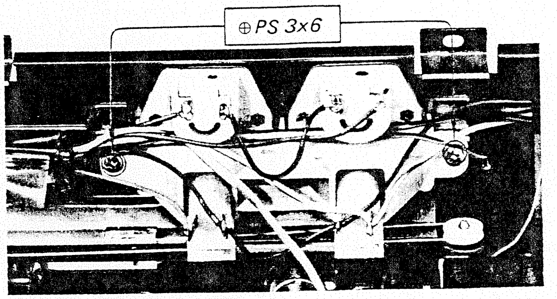


Fig. 2-12. Meter replacement

2 8. DIAL GLASS REPLACEMENT

1. Remove the front panel as described in Procedure 2-4.
2. Remove the six screws securing the front glass holder to the dial glass escutcheon as shown in Fig. 2-13. This frees the dial glass.
3. Install the replacement dial glass.

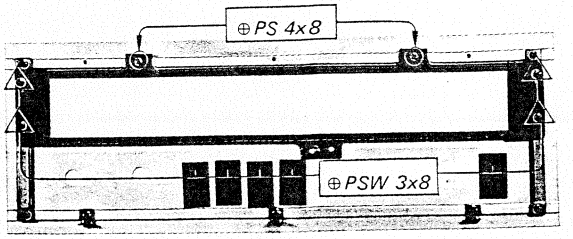


Fig. 2-13. Dial glass replacement

2-9. DIAL SCALE REPLACEMENT

1. Remove the front panel as described in Procedure 2-4.
2. Remove the screws securing the dial scale holder at both sides of the front subchassis as shown in Fig. 2-14. This frees the dial scale.
3. Install the replacement dial scale.

2-10. SWITCH AND CONTROL REPLACEMENT

Prepare for replacing any switches or controls by removing the front panel as described in Procedure 2-4.

1. Remove the hex nuts or the screws securing the defective components to the front subchassis as shown in Fig. 2-14.
2. Install the replacement components.

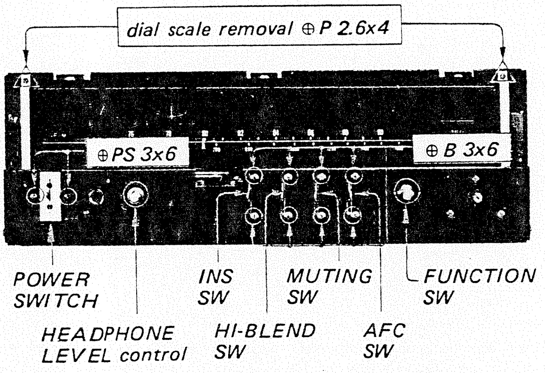

dial scale removal ⊕P 2.6x4
⊕PS 3x6
⊕B 3x6
POWER SWITCH
INS SW
MUTING SW
FUNCTION SW
HEADPHONE LEVEL control
HI-BLEND SW
AFC SW

Fig. 2-14. Dial scale, switch and control replacement

2-11. REAR PANEL REMOVAL

1. Remove the two self-tapping screws at each side of the rear panel securing it to the chassis as shown Fig. 2-15.

2-12. REPLACEMENT OF COMPONENTS SECURED TO THE REAR PANEL BY RIVETS

1. Remove the rear panel as described in Procedure 2-11.
2. Bore out the rivets using a drill bit slightly larger in diameter than the rivet. See Fig. 2-16.
3. Punch out the remainder of the rivet with a nail set or prick punch.
4. Remove the defective component, and then install a new one.
5. Secure the new component with a suitable screw and nut, or repair rivet screw (Part Number 3-701-402).

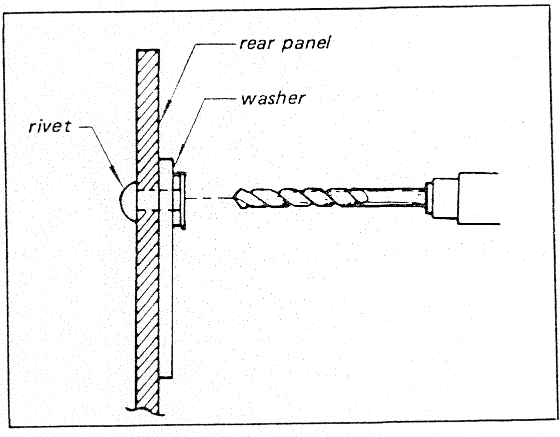

rear panel
washer
rivet

Fig. 2-16. Rivet replacement

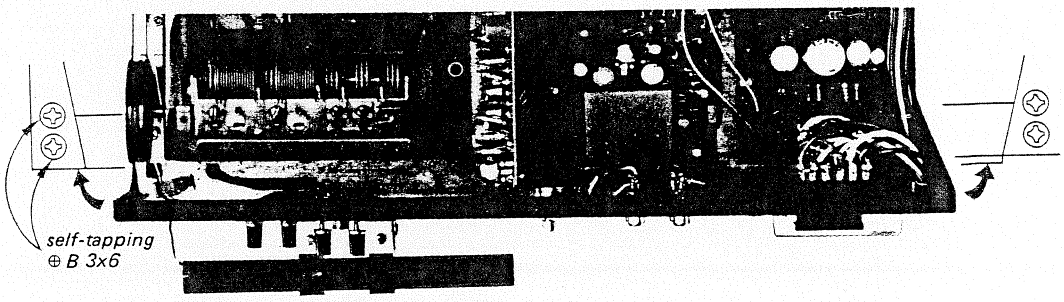
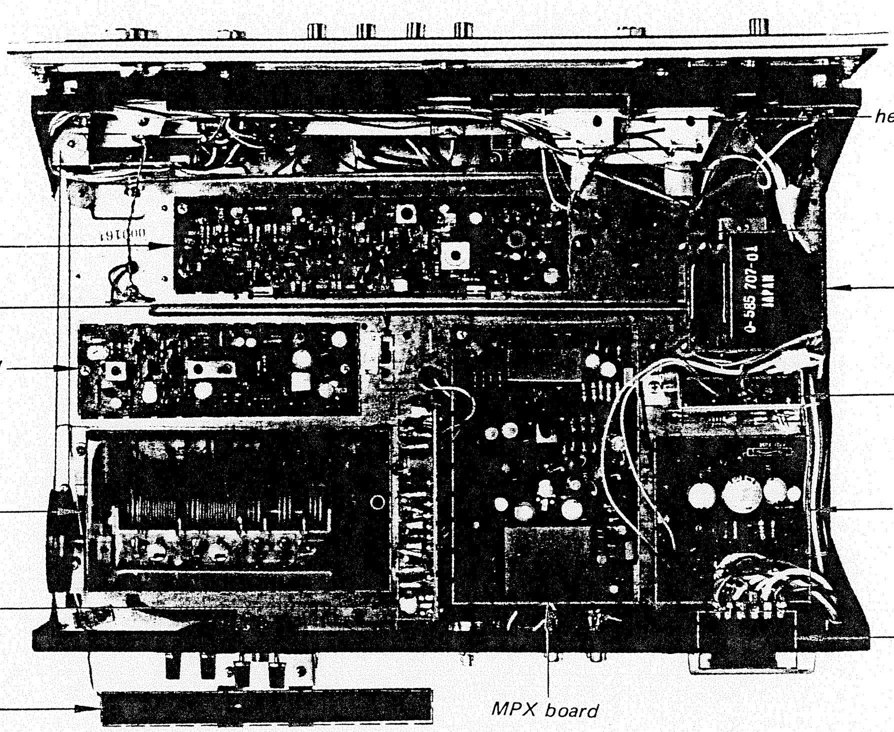

self-tapping
⊕B 3x6

Fig. 2-15. Rear panel removal

2-13. CHASSIS LAYOUT


headphone amp board
fm i-f board
de-emphasis changeover sw
power transformer
a-m conv/i-f board
4-P fuse holder (AEP model only)
front end
power supply board
INS board
voltage changeover block (AEP Model only)
A-m bar antenna
MPX board

SECTION 3
ALIGNMENT AND ADJUSTMENT PROCEDURES

3-1. FM I-F STRIP ALIGNMENT

CAUTION

The ceramic filters in the fm i-f circuit are selected according to their specified center frequencies and color coded as shown in Fig. 3-1 and listed in Table 3-1. Check the color code of the filters to identify the same center frequency when replacing any of these filters.

TABLE 3-1.

FM I-F CERAMIC FILTERS

Part No.	*Color*	*Specified Center Freq.*
1-403-562-11	red	10.70 MHz
1-403-562-21	black	10.66 MHz
1-403-562-31	white	10.74 MHz
1-403-562-41	green	10.62 MHz
1-403-562-51	yellow	10.78 MHz

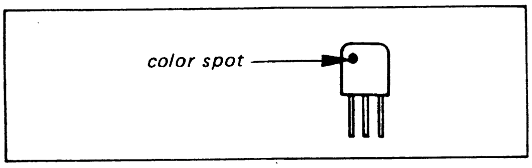


Fig. 3-1. Fm i-f ceramic filter

Test Equipment Required

1. Standard fm signal generator
2. Ac VTVM
3. Alignment tools

Note: Fm i-f strip alignment should be performed only after replacing IFT101 in the front end.

Procedure

1. With the equipment connected as shown in Fig. 3-2, set the SSG's controls as follows:

   Carrier frequency .... 98 MHz
   Modulation .... Fm, 400 Hz, 100%
   Output level .... 30 μV (30 dB)

2. Set the tuner's controls as follows:

   FUNCTION switch ...... FM AUTO STEREO
   AFC switch .... OFF

3. Turn the core of transformer IFT101 (See Fig. 3-5) with the alignment tool to obtain maximum output.

3-2. FM DISCRIMINATOR ALIGNMENT

Note: There are two or three methods of discriminator alignment, but only the simplified method using the tuner's TUNING meter is described here.

Test Equipment Required

1. Oscilloscope
2. Alignment tools

Procedure

1. With the equipment connected as shown in Fig. 3-3, set the tuner's control as follows:

   FUNCTION switch .... FM AUTO STEREO
   AFC switch ....OFF

   No signal should be received.

2. Adjust the controls of the oscilloscope to provide a visible indication of noise.
   Always watch the oscilloscope to confirm that the tuner is not receiving any off-the-air signal.

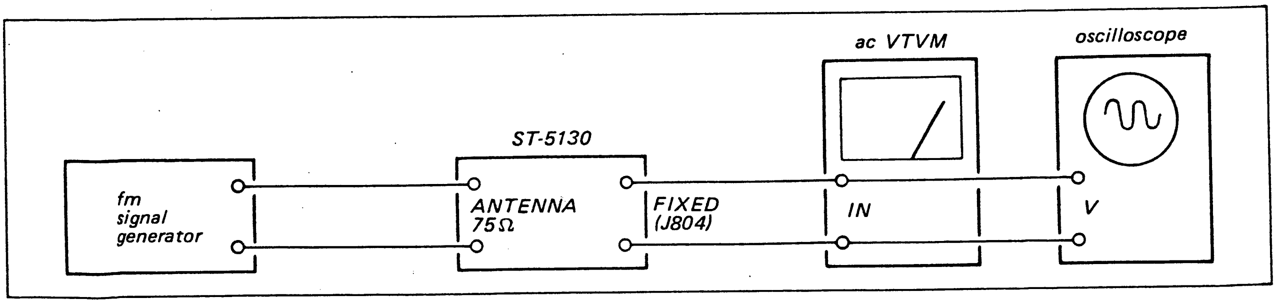


Fig. 3-2. I-f, muting and front-end alignment test setup

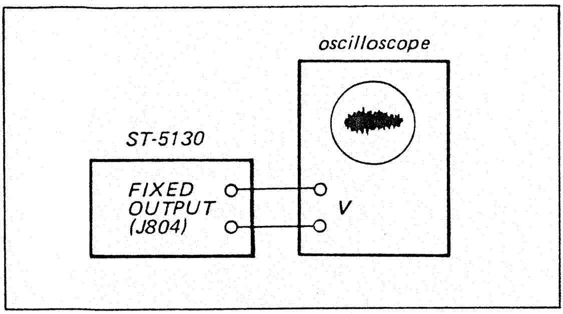


Fig. 3-3. *Discriminator alignment test setup*

3. Turn the top core (secondary side) of discriminator transformer T201 (see Fig. 3-4) with a hex-head alignment tool to obtain a null-point reading on the tuning meter.
   If the discriminator transformer (T201) is not aligned correctly, some deviation on the tuning meter will be observed.

   Note: Turn the core carefully and slowly. At both extreme positions of the top core, a null point will be observed. The real null point should be obtained in the middle of the core thread length.

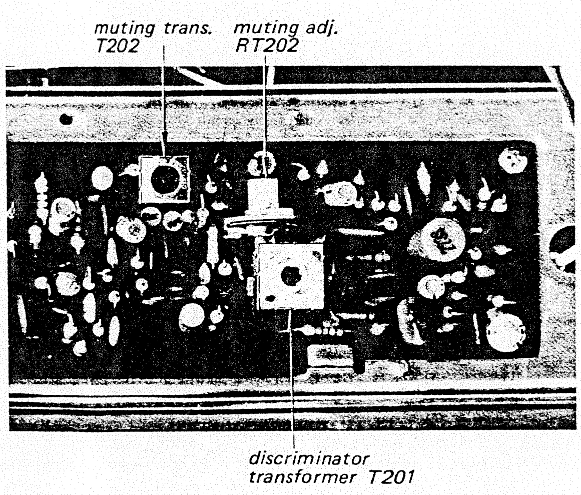


Fig. 3-4. *Adjustment parts location*

3-3. MUTING ADJUSTMENT

Note: Two methods of muting alignment are available, signal generator alignment and alignment by using an off-the-air signal. You can use either of them.

Signal Generator Alignment

Test Equipment Required

1. Fm standard signal generator
2. Ac VTVM or oscilloscope
3. Alignment tools

Preparation

1. Turn the knob of RT202 (see Fig. 3-4) fully clockwise on the fm i-f amplifier board.

Procedure

1. With the equipment connected as shown in Fig. 3-2, set the tuner's controls as follows:

   FUNCTION switch .... FM AUTO STEREO
   AFC switch .... OFF
   MUTING switch .... ON

2. Follow the procedure given in Table 3-2. Note that the muting circuit should begin to operate at the symmetrical deflection point on the TUNING meter when detuning the tuner to higher or lower than the reference carrier frequency.

Off-the-Air Signal Alignment

Accurate muting circuit adjustment can also be performed by utilizing off-the-air local fm signals instead of the fm SSG.
Note that a weak signal is best for this purpose.

3-4. SWITCHING LEVEL ADJUSTMENT OF NOISE SELECTOR CIRCUIT IN INS SECTION

Test Equipment Required

Same as muting adjustment

Procedure

1. With the equipment connected as shown in Fig. 3-2, set the tuner's controls as follows:

   FUNCTION switch .... FM AUTO STEREO
   INS switch .... ON

2. Set the SSG's controls as follows:

   Frequency .... 98 MHz
   Modulation .... fm, 400 Hz, 100%
   Output level .... 60 dB (1,000μV)

3. Precisely tune to the SSG signal, and then decrease the output level of SSG to obtain 35 dB at antenna terminal of ST-5130, while watching the collector voltage of Q503 (1.5 V).

Set the RT501 (see Fig. 3-5) to the position where the Q503 collector voltage changes from 1.5 V to 14 V.

4. Check the collector voltage of Q503 corresponding with the input signal level as follows:

Input signal level	Q503 collector voltage
30 dB	14 V
40 dB	1.5 V

3-5. FM FRONT-END ALIGNMENT (Frequency coverage)

Never attempt alignment of the front-end section except for the frequency-coverage and dial-calibration adjustments. The front-end section of the tuner has been carefully adjusted at the factory, so very little adjustment is necessary in the field. Alignment need not be performed when the front-end FET is replaced since changes in FET parameters have little effect upon tuning. If an rf-stage adjustment is required, ask your nearest SONY Service Station to send your unit to the Factory Service Center for a complete front-end alignment. Exercise caution when returning the faulty unit so that it is not damaged in transit. The warranty will not cover damage incurrent in transit to the Factory Service Center.

Note: Before starting this alignment, the discriminator transformer alignment should be performed.

Signal Generator Alignment

Test Equipment Required

1. Standard fm signal generator
2. Ac VTVM or oscilloscope
3. Alignment tools

Preparation

1. Connect the equipment as shown in Fig. 3-2.
2. Set the tuner's controls as follows:

FUNCTION switch	FM AUTO STEREO
MODE switch	MONO
AFC switch	OFF

Procedure

Follow the procedures given in Table 3-3, when performing this alignment with an fm signal generator.

Off-the-Air Alignment

Accurate dial calibration and a frequency-coverage test can also be performed by utilizing off-the-air local fm signals. However, before performing the following procedure, be sure that the dial is mechanically calibrated.

TABLE 3-2. MUTING ADJUSTMENT

SSG Frequency and Output Level	Tuner Dial Indication	Scope Connection	Adjust	Remarks
98 MHz 400 Hz. 30% Mod. 30μV (30 dB)	98 MHz	FIXED (J804)	T202	Turn the core of T202 (See Fig. 3-4) to obtain proper muting operation.

TABLE 3-3. FM FREQUENCY COVERAGE

Step	Coupling Between Tuner and SSG	SSG Frequency and Output Level	Tuner Dial Indication	Adjust	Indication
1.	Direct coupling	87.5 MHz 400 Hz 100% mod. 10μV (20 dB)	lowest frequency position	OSC coil L105 See Fig. 3-5	Maximum VTVM reading
2.	Same as above	108.4 MHz 400 Hz 100% mod. 10μV (20 dB)	highest frequency position	OSC trimmer CT105 See Fig. 3-5	Same as above

Set the RT501 (see Fig. 3-5) to the position where the Q503 collector voltage changes from 1.5 V to 14 V.

4. Check the collector voltage of Q503 corresponding with the input signal level as follows:

Input signal level	Q503 collector voltage
30 dB	14 V
40 dB	1.5 V

3-5. FM FRONT-END ALIGNMENT
(Frequency coverage)

Never attempt alignment of the front-end section except for the frequency-coverage and dial-calibration adjustments. The front-end section of the tuner has been carefully adjusted at the factory, so very little adjustment is necessary in the field. Alignment need not be performed when the front-end FET is replaced since changes in FET parameters have little effect upon tuning. If an rf-stage adjustment is required, ask your nearest SONY Service Station to send your unit to the Factory Service Center for a complete front-end alignment. Exercise caution when returning the faulty unit so that it is not damaged in transit. The warranty will not cover damage incurrent in transit to the Factory Service Center.

Note: Before starting this alignment, the discriminator transformer alignment should be performed.

Signal Generator Alignment

Test Equipment Required

1. Standard fm signal generator
2. Ac VTVM or oscilloscope
3. Alignment tools

Preparation

1. Connect the equipment as shown in Fig. 3-2.
2. Set the tuner's controls as follows:

FUNCTION switch .... FM AUTO STEREO
MODE switch .... MONO
AFC switch .... OFF

Procedure

Follow the procedures given in Table 3-3, when performing this alignment with an fm signal generator.

Off-the-Air Alignment

Accurate dial calibration and a frequency-coverage test can also be performed by utilizing off-the-air local fm signals. However, before performing the following procedure, be sure that the dial is mechanically calibrated.

TABLE 3-2. MUTING ADJUSTMENT

SSG Frequency and Output Level	Tuner Dial Indication	Scope Connection	Adjust	Remarks
98 MHz 400 Hz. 30% Mod. 30μV (30 dB)	98 MHz	FIXED (J804)	T202	Turn the core of T202 (See Fig. 3-4) to obtain proper muting operation.

TABLE 3-3. FM FREQUENCY COVERAGE

Step	Coupling Between Tuner and SSG	SSG Frequency and Output Level	Tuner Dial Indication	Adjust	Indication
1.	Direct coupling	87.5 MHz 400 Hz 100% mod. 10μV (20 dB)	lowest frequency position	OSC coil L105 See Fig. 3-5	Maximum VTVM reading
2.	Same as above	108.4 MHz 400 Hz 100% mod. 10μV (20 dB)	highest frequency position	OSC trimmer CT105 See Fig. 3-5	Same as above

Adjustment Parts Location

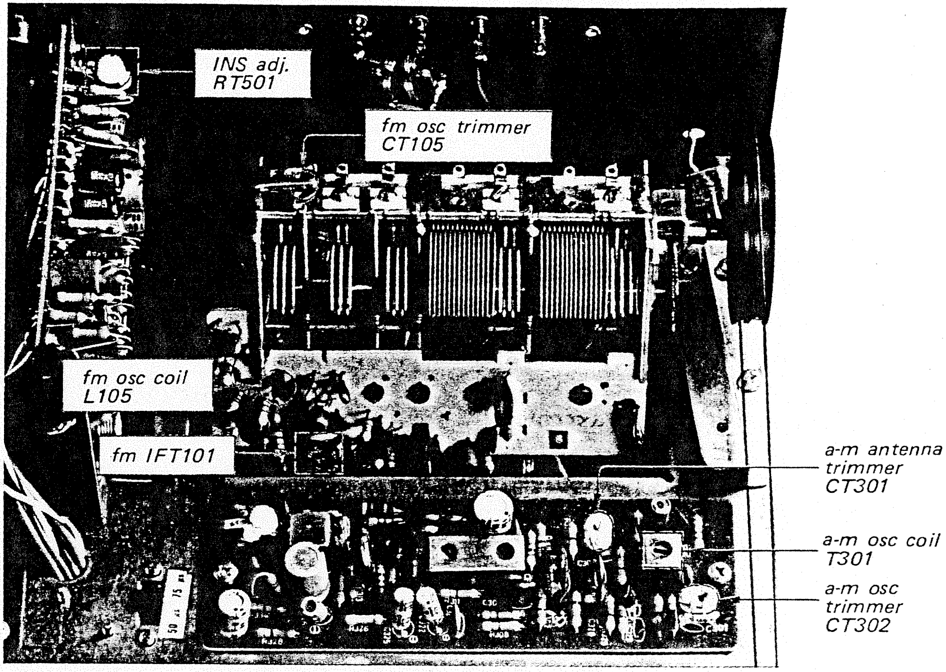

INS adj.
RT501
fm osc trimmer
CT105
fm osc coil
L105
fm IFT101
a-m antenna trimmer
CT301
a-m osc coil
T301
a-m osc trimmer
CT302

Fig. 3-5. Adjustment parts location

3-6. FM STEREO SEPARATION ADJUSTMENT

Test Equipment Required

1. Fm stereo signal generator
2. Ac VTVM
3. Oscilloscope
4. Alignment tools

Procedure

1. Connect the equipment as shown in Fig. 3-6, then set the fm stereo signal generator controls as follows:

Carrier frequency	98 MHz
Output level	1,000μV (60dB)
Mode	Stereo
Audio (400 Hz) Mod	67.5 kHz (90%)*
Pilot (19 kHz) Mod	7.5 kHz (10%)

***Note:** 75 kHz (100%) if metering indicates total modulation (audio+pilot)

2. Precisely tune the set to the SSG's carrier frequency, then turn the top core of 38 kHz transformer T401 (See Fig. 3-7), to obtain maximum output at the left channel. Note that this adjustment has a close relationship with stereo distortion.
3. Record the output level of the left channel when the MPX generator input selector is set to the left channel.
4. Switch the input selector to the right channel and read the residual signal level in the left channel.
5. The output-level to residual-level ratio represents the separation. Adjust separation adj. control RT401 (See Fig. 3-7) for minimum residual level. Check the right channel for separation. Usually, about an 8 to 9 dB difference in channel separation exists. Readjust RT401 for minimum difference between left- and right-channel separation. While doing this, remember that the output level also changes according to the setting of RT401.

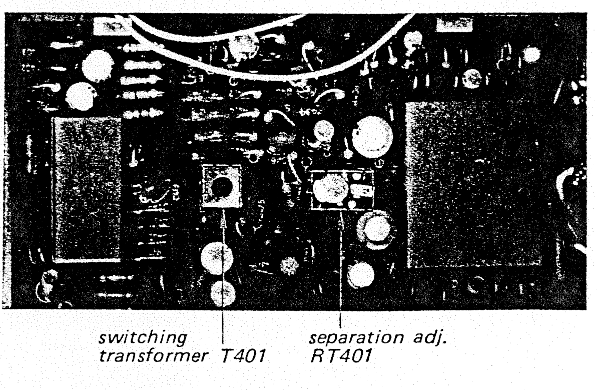


Fig. 3-7. Adjustment parts location

3-7. TUNER INPUT METER CALIBRATION

Test Equipment Required

1. Standard a-m/fm signal generator
2. Loop antenna
3. Ac VTVM or oscilloscope

Procedure

(FM)

1. With the equipment connected as shown in Fig. 3-2, feed a following signal to the FM ANTENNA terminal.

Carrier frequency	98 MHz
Modulation	Fm, 400 Hz, 30%
Signal level	1,000μV (60 dB)

2. Tune to the signal generator frequency, then adjust RT201 (See Fig. 3-8) for the specified reading on the meter as shown in Fig. 3-9.

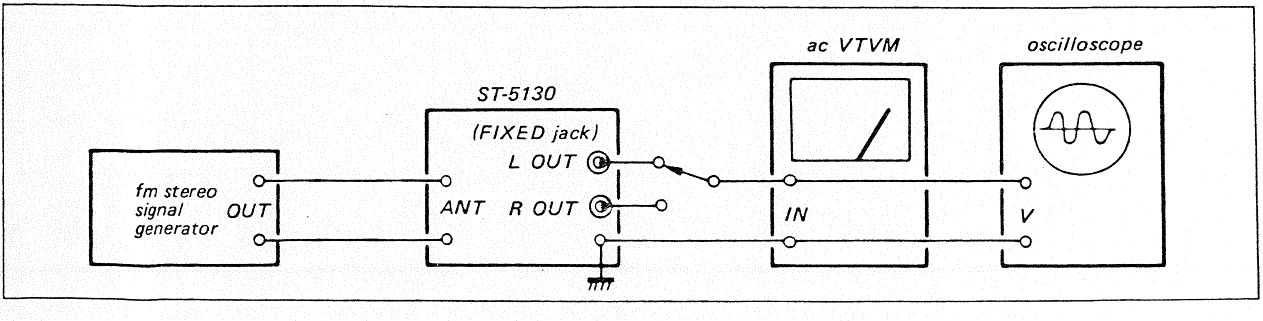


Fig. 3-6. Fm stereo separation adjustment test setup

(AM)

1. With the equipment connected as shown in Fig. 3-10, feed a following signal to the AM bar antenna.
   Carrier frequency .... 1,000 kHz
   Modulation .... A-m, 400 Hz, 30%
   Signal level at
   bar antenna .... 157.5 mV (104 dB)
2. Tune to the signal generator frequency, then adjust RT301 (See Fig. 3-8) for the specified reading on the meter as shown in Fig. 3-9.

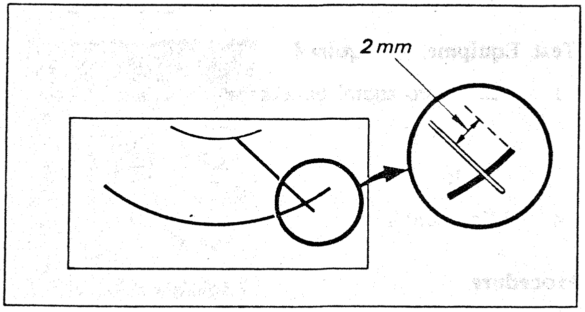


Fig. 3-9. Meter calibration

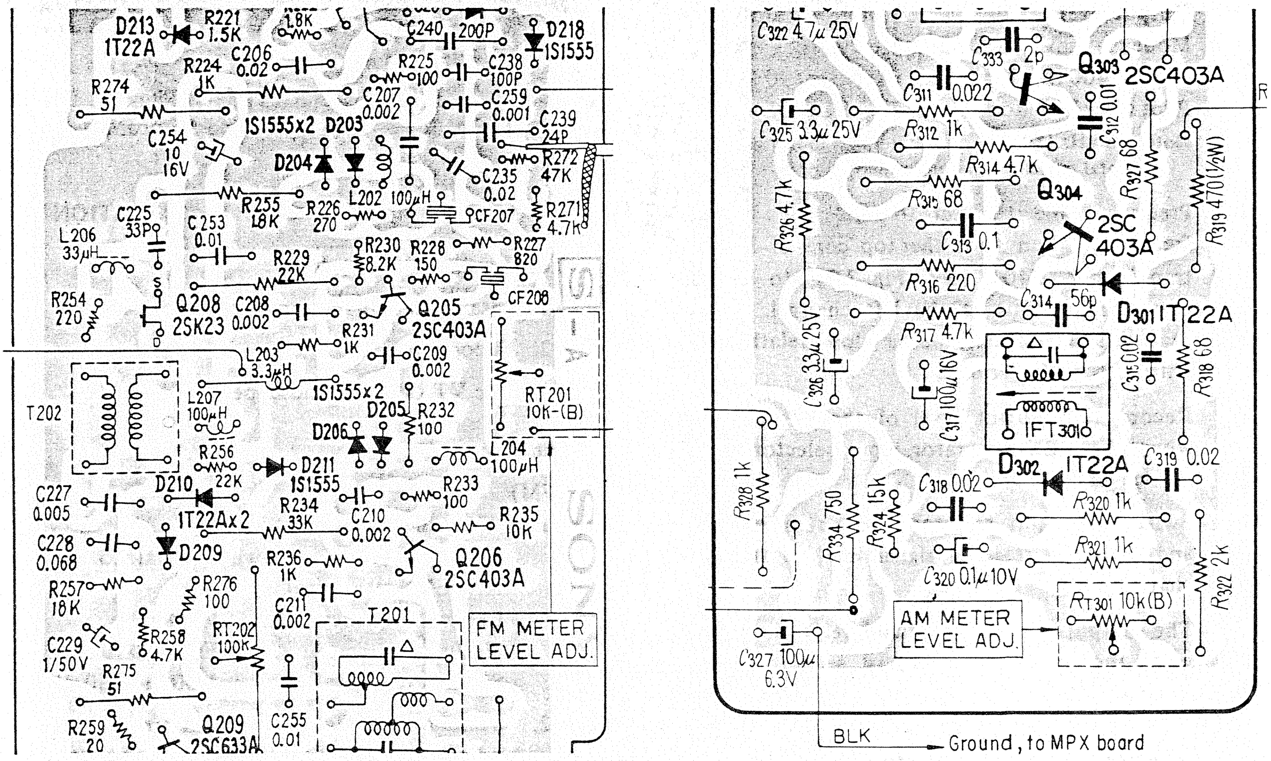

D213
1T22A
R221 1.5K
1.8K
C240 200P
D218 1S1555
R224 1K
C206 0.02
R225 100
C238 100P
R274 51
C207 0.002
C259 0.001
C239 24P
1S1555x2 D203
C254 10 16V
D204
R272 47K
C235 0.02
L202 100μH
R255 18K
R226 270
CF207
R271 4.7K
C225 33P
C253 0.01
L206 33μH
R229 22K
R230 8.2K
R228 150
R227 820
CF208
R254 220
Q208 2SK23
C208 0.002
Q205 2SC403A
R231 1K
L203 3.3μH
C209 0.002
T202
L207 100μH
1S1555x2
D205
R232 100
RT201 10K-(B)
D206
L204 100μH
R256 22K
D211 1S1555
R233 100
C227 0.005
D210
R234 33K
C210 0.002
R235 10K
1T22Ax2
C228 0.068
D209
R236 1K
Q206 2SC403A
R257 18K
R276 100
C211 0.002
T201
FM METER LEVEL ADJ.
C229 1/50V
R258 4.7K
RT202 100K
R275 51
C255 0.01
R259 20
Q209 2SC633A
C322 4.7μ 25V
C333 2p
Q303 2SC403A
C311 0.022
C312 0.01
C325 3.3μ 25V
R312 1k
R314 4.7k
R327 68
R319 470(1/2W)
R326 4.7k
R315 68
Q304 2SC 403A
C313 0.1
R316 220
C314 56p
D301 1T22A
C326 3.3μ 25V
R317 4.7k
C317 100μ 16V
IFT301
C315 0.02
R318 68
D302 1T22A
C319 0.02
R328 1k
R334 750
R324 15k
C318 0.02
R320 1k
R321 1k
R322 2k
C320 0.1μ 10V
RT301 10k(B)
AM METER LEVEL ADJ.
C327 100μ 6.3V
BLK
Ground, to MPX board

Fig. 3-8. Adjustment parts location

3-8. A-M I-F STRIP ALIGNMENT

Note: The i-f transformers (CFT301 and IFT-301) in the a-m i-f amplifier circuit are adjusted at the factory, so very little adjustment is necessary in the field even if replacing any of these i-f transformers.

3-9. A-M FREQUENCY COVERAGE AND TRACKING ALIGNMENT

Preparation

Connect the input cable of ac VTVM or oscilloscope to the output jack as shown in Fig. 3-10.

Signal Generator Alignment

Test Equipment Required

1. Standard a-m signal generator
2. Loop antenna
3. Ac VTVM or oscilloscope

Procedure

With the equipment connected as shown in Fig. 3-10 follow the procedures given in Table 3-4 when performing this alignment with an a-m signal generator.

Off-the-Air Signal Alignment

Accurate dial calibration, and a frequency-coverage and tracking test can also be performed by utilizing off-the-air local a-m signals. However, before performing the following procedure, be sure that the dial pointer is correctly positioned.

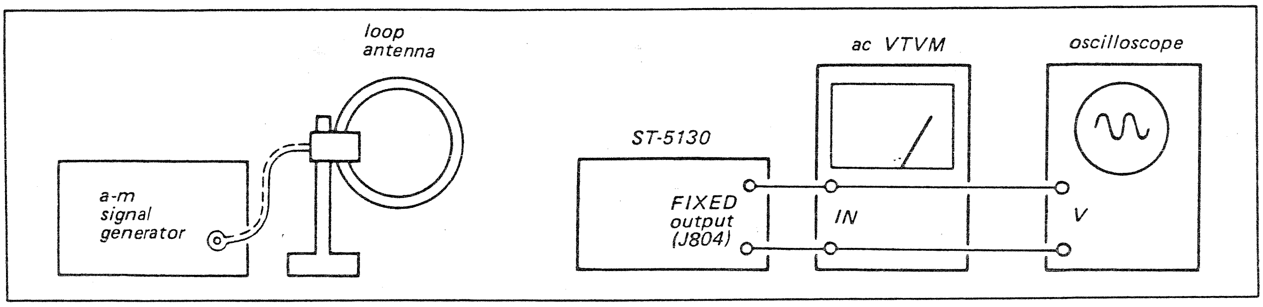


Fig. 3-10. A-m frequency coverage and tracking adjustment

TABLE 3-4. A-M FREQUENCY COVERAGE AND TRACKING ALIGNMENT

Step	Coupling Between Tuner and SSG	SSG Frequency and Output Level	Tuner Dial Indication	Adjust	Indication
Frequency Coverage					
1.	Loop antenna	530 kHz (400 Hz, 30% mod) 1,000μV (60 dB)	530 kHz	OSC coil T301 See Fig. 3-5	Maximum VTVM reading
2.	Same as above	1,600 kHz Same as above	1,600 kHz	OSC trimmer CT302 See Fig. 3-5	Same as above
Tracking					
1.	Loop antenna	620 kHz (400 Hz, 30% mod) Output level: as low as possible	Tune to the SSG signal	Antenna coil L801 (bar antenna)	Maximum VTVM reading
2.	Same as above	1,400 kHz Same as above	Same as above	Antenna trimmer CT301 See Fig. 3-5	Same as above

SECTION 4
REPACKING

Note: AEP Model ..... Serial No. 900,001 and late
Canada Model .. Serial No. 700,001 and late

The ST-5130's original shipping carton and packing materials are the ideal containers for shipping the unit. However to secure the maximum protection, the ST-5130 must be repacked in these materials precisely as before. The proper repacking procedures are shown in Fig. 4-1.

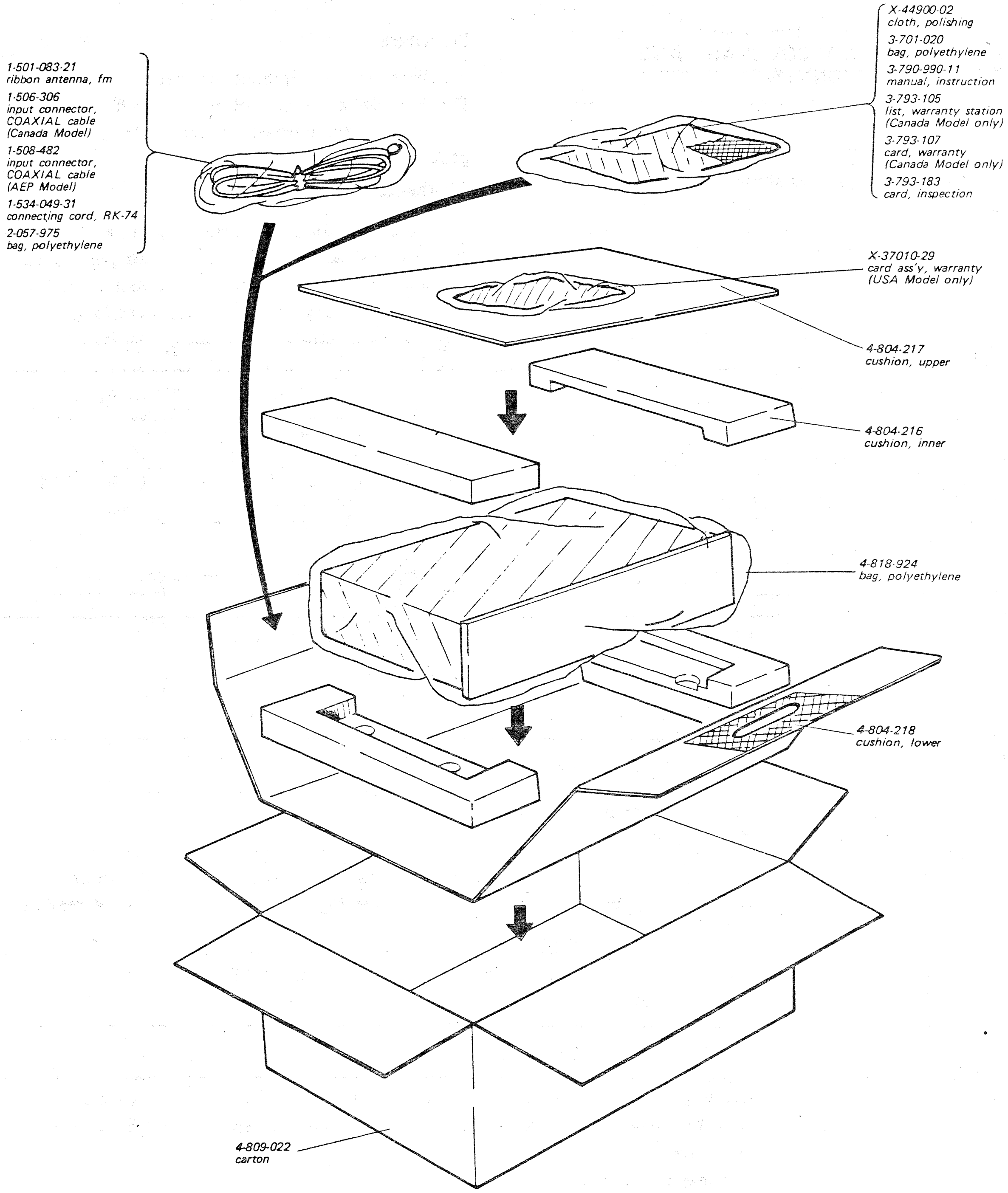

1-501-083-21
ribbon antenna, fm
1-506-306
input connector, COAXIAL cable (Canada Model)
1-508-482
input connector, COAXIAL cable (AEP Model)
1-534-049-31
connecting cord, RK-74
2-057-975
bag, polyethylene
X-44900-02
cloth, polishing
3-701-020
bag, polyethylene
3-790-990-11
manual, instruction
3-793-105
list, warranty station (Canada Model only)
3-793-107
card, warranty (Canada Model only)
3-793-183
card, inspection
X-37010-29
card ass'y, warranty (USA Model only)
4-804-217
cushion, upper
4-804-216
cushion, inner
4-818-924
bag, polyethylene
4-804-218
cushion, lower
4-809-022
carton

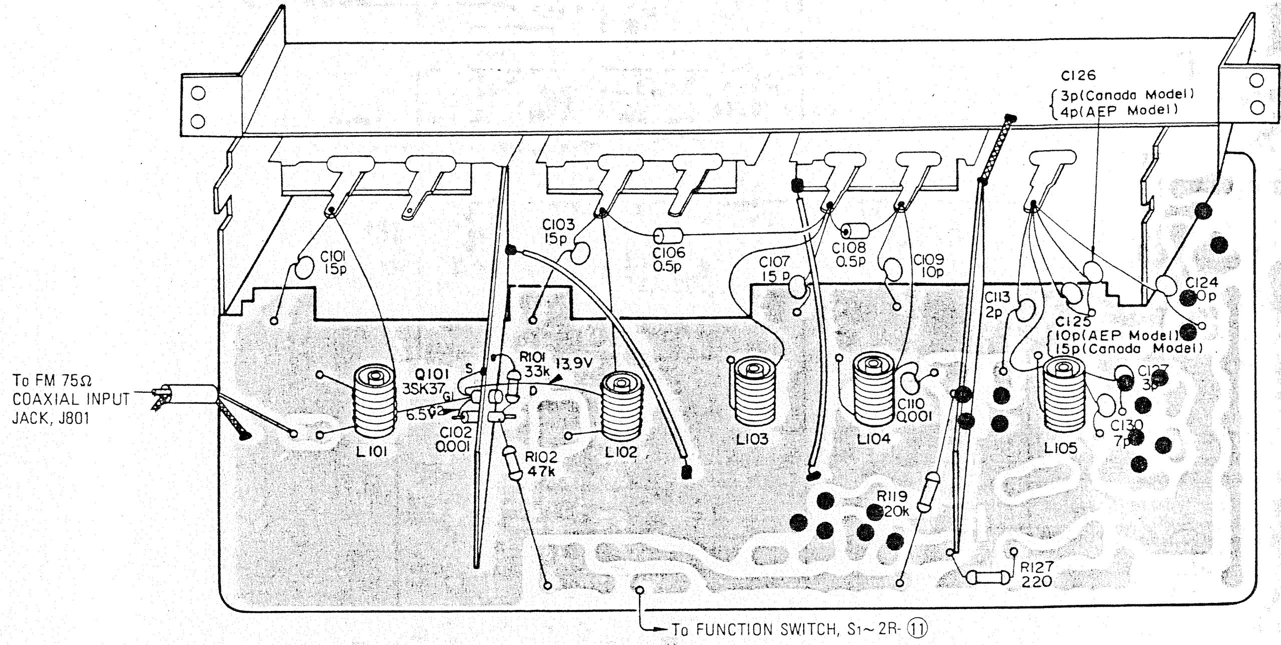
Fig. 4-1. Repacking

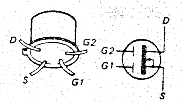
SECTION 5
DIAGRAMS

5-1. MOUNTING DIAGRAM – Front End Section –

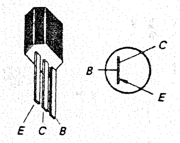
– Conductor Side –

Note: AEP Model ..... Serial No. 900,001 and later
Canada Model .. Serial No. 700,001 and later

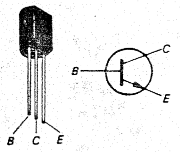

C126
3p(Canada Model)
4p(AEP Model)
C103 15p
C101 15p
C106 0.5p
C107 15p
C108 0.5p
C109 10p
C113 2p
C124 10p
C125
10p(AEP Model)
15p(Canada Model)
C127 3p
C130 7p
To FM 75Ω COAXIAL INPUT JACK, J801
Q101 3SK37
S
G1
D
6.5V
R101 33k
13.9V
C102 0.001
R102 47k
L101
L102
L103
L104
L105
C110 0.001
R119 20k
R127 220
To FUNCTION SWITCH, S1~2R- ⑪


D
G2
S
G1
G2
G1
D
S

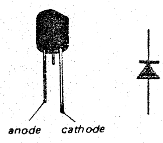
3SK37



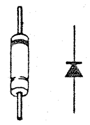
2SA677



2SC710

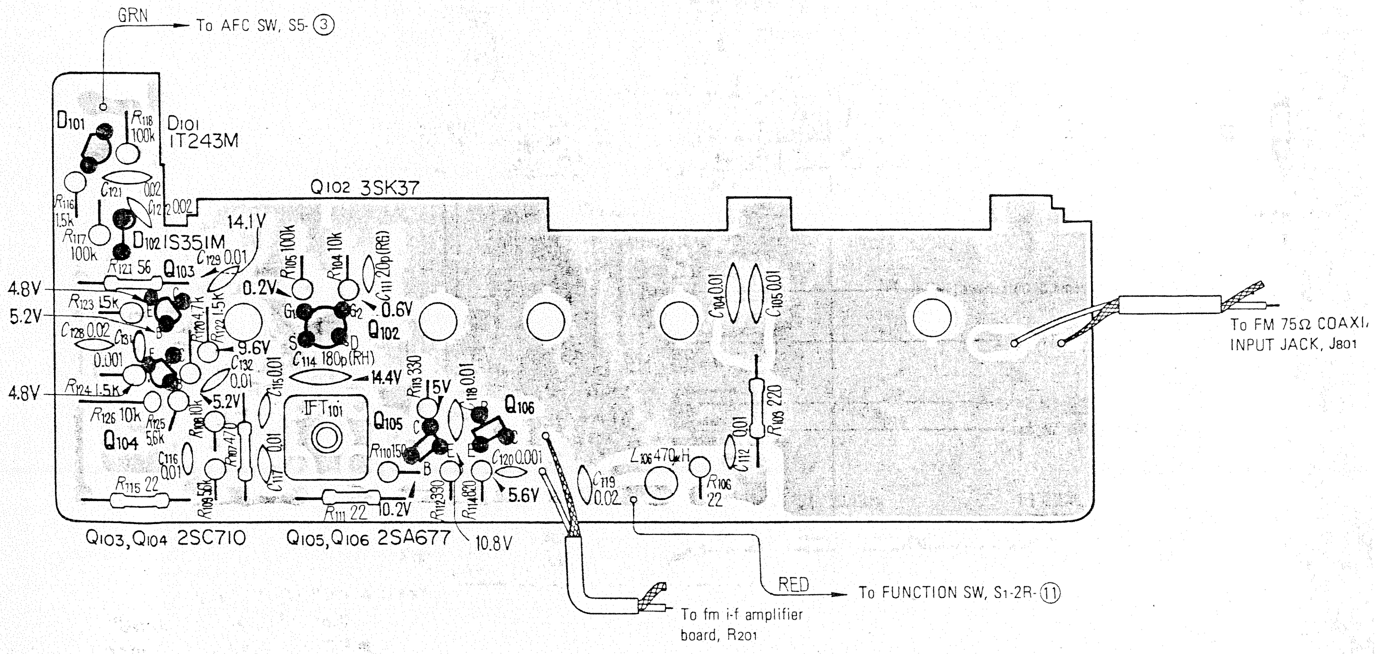

anode
cathode

1T243M



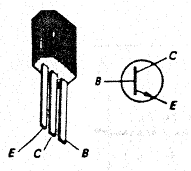
1S351M

– Component Side –

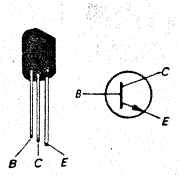

GRN
To AFC SW, S5-③
D101
R118 100k
D101 1T243M
C121 0.02
C122 0.002
R116 1.5k
R117 100k
D102 1S351M
Q102 3SK37
14.1V
C129 0.01
R105 100k
R104 10k
C111 20p(RG)
R121 56
Q103
4.8V
5.2V
R123 15k
R120 4.7k
R122 1.5k
0.2V
G1
G2
0.6V
S
D
Q102
C128 0.02
C131 0.001
9.6V
C132 0.01
C114 180p(RH)
14.4V
R113 330
15V
C118 0.01
Q106
C104 0.01
C105 0.01
R103 220
4.8V
R124 1.5K
C115 0.01
5.2V
R126 10k
R125 5.6k
R108 10k
IFT101
Q105
Q104
C116 0.01
R107 47
C117 0.01
R110 150
C120 0.001
L106 470μH
C112 0.01
R106 22
C119 0.02
5.6V
R115 22
R109 56k
R111 22
10.2V
R112 330
R114 680
To FM 75Ω COAXI
INPUT JACK, J801
Q103, Q104 2SC710
Q105, Q106 2SA677
10.8V
RED
To FUNCTION SW, S1-2R-⑪
To fm i-f amplifier board, R201

5-2. MOUNTING DIAGRAM — Fm I-f Amp Board —

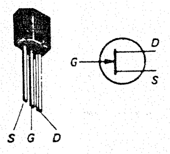
— Conductor Side —



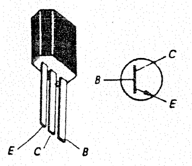
2SC403A



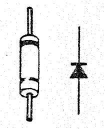
2SC710



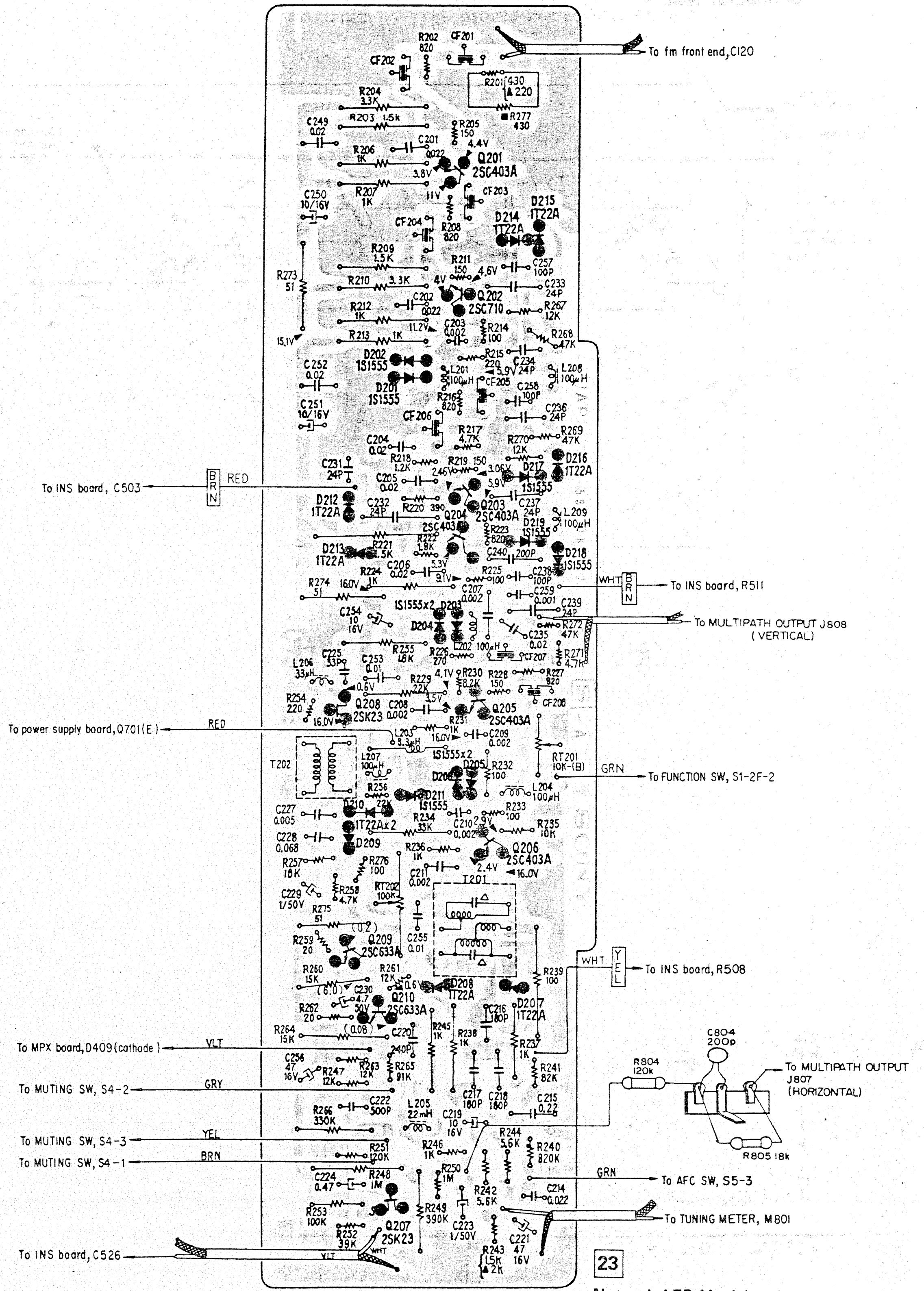
2SK23



2SC633A



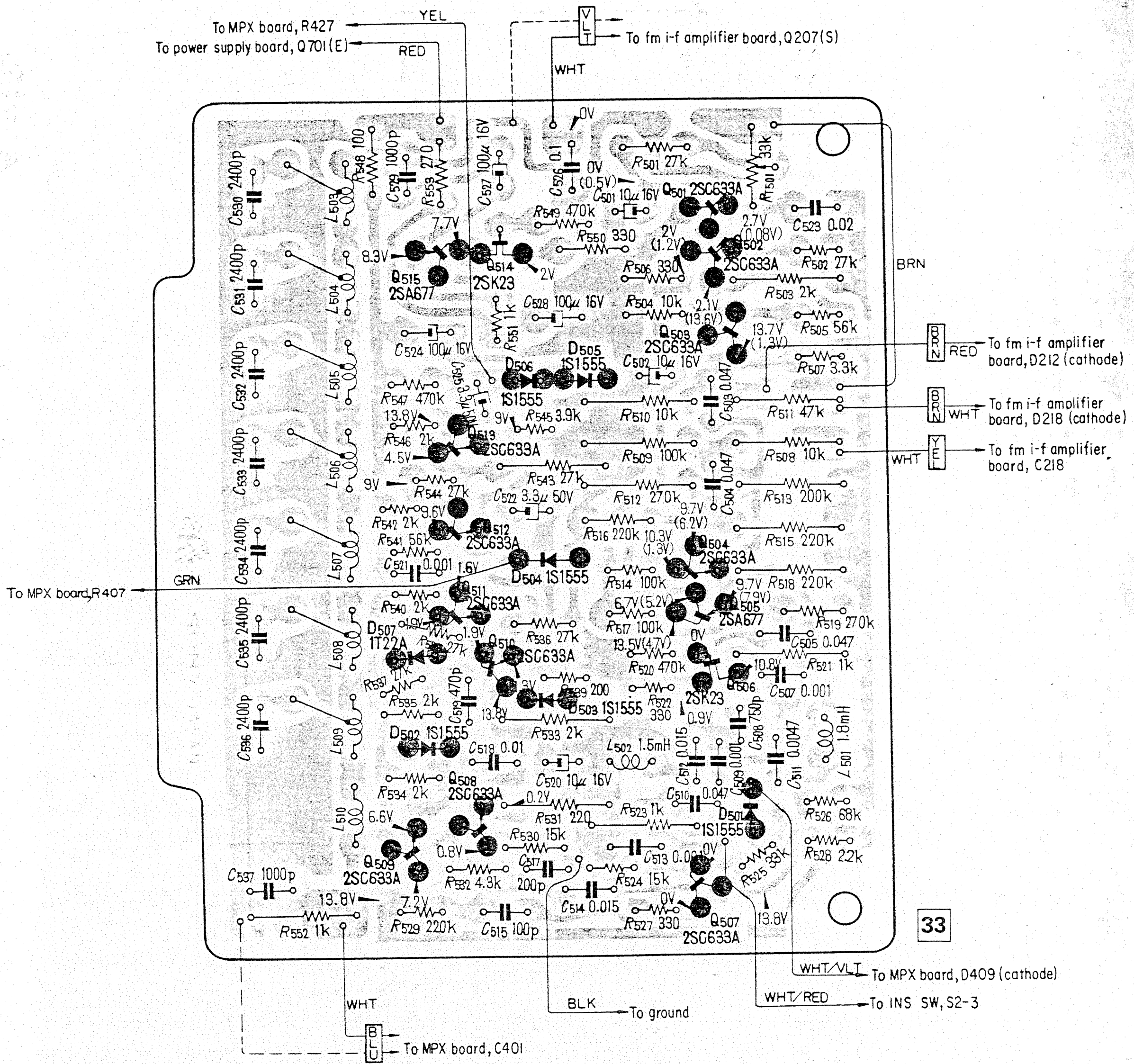
1T22A
1S1555

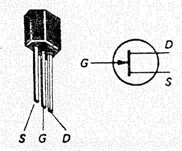

To fm front end, C120
To INS board, C503
BRN
RED
To INS board, R511
WHT
BRN
To MULTIPATH OUTPUT J808 (VERTICAL)
To power supply board, Q701(E)
RED
To FUNCTION SW, S1-2F-2
GRN
To INS board, R508
WHT
YEL
To MPX board, D409 (cathode)
VLT
To MUTING SW, S4-2
GRY
To MUTING SW, S4-3
YEL
To MUTING SW, S4-1
BRN
To MULTIPATH OUTPUT J807 (HORIZONTAL)
C804 200p
R804 120k
R805 18k
To AFC SW, S5-3
GRN
To TUNING METER, M801
To INS board, C526
VLT
WHT
T202
T201
Q201 2SC403A
Q202 2SC710
Q203 2SC403A
Q204 2SC403A
Q205 2SC403A
Q206 2SC403A
Q207 2SK23
Q208 2SK23
Q209 2SC633A
Q210 2SC633A
23

Note: ▲ AEP Model only
(Serial No. up to 901,900)
■ R277 is mounted on conductor side.

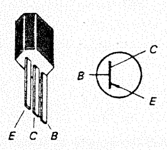
5-3. MOUNTING DIAGRAM – INS Board –

– Conductor Side –

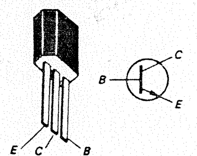

To MPX board, R427
YEL
To power supply board, Q701(E)
RED
VLT
To fm i-f amplifier board, Q207(S)
WHT
BRN
To fm i-f amplifier board, D212 (cathode)
To fm i-f amplifier board, D218 (cathode)
To fm i-f amplifier board, C218
To MPX board, R407
GRN
33
WHT/VLT
To MPX board, D409 (cathode)
WHT/RED
To INS SW, S2-3
BLK
To ground
BLU
To MPX board, C401
Q501 2SC633A
Q502 2SC633A
Q503 2SC633A
Q504 2SC633A
Q505 2SA677
Q506 2SK23
Q507 2SC633A
Q508 2SC633A
Q509 2SC633A
Q510 2SC633A
Q511 2SC633A
Q512 2SC633A
Q513 2SC633A
Q514 2SK23
Q515 2SA677
D501 1S1555
D502 1S1555
D503 1S1555
D504 1S1555
D505 1S1555
D506 1S1555
D507 1T22A
L501 1.8mH
L502 1.5mH



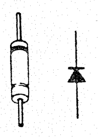
2SK23



2SA677



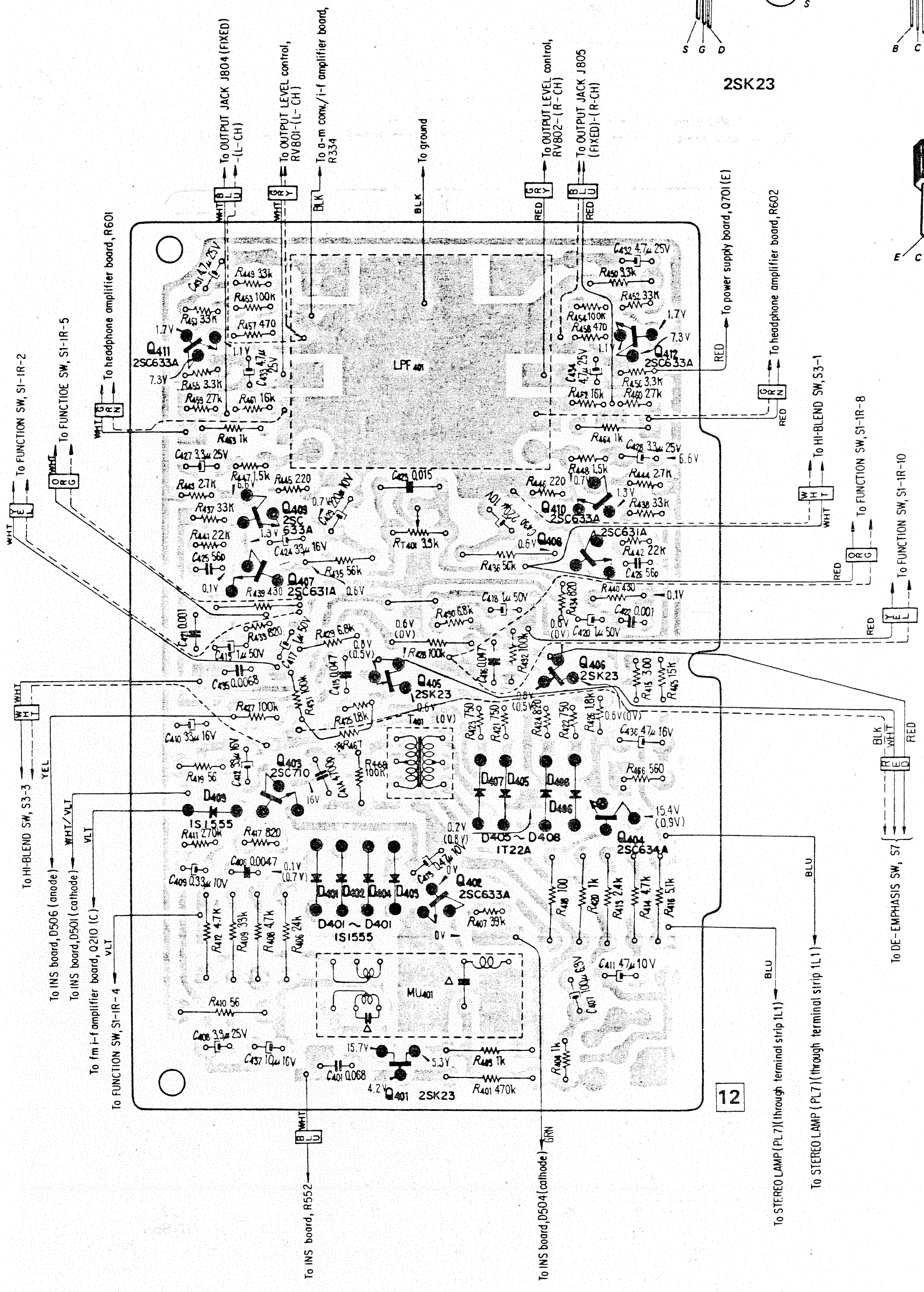
2SC633A

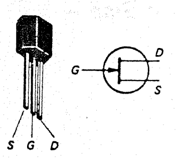


1T22A
1S1555

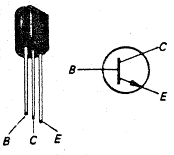
5-4. MOUNTING DIAGRAM — MPX Board —

— Conductor Side —

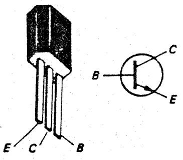

To OUTPUT JACK J804 (FIXED) -(L-CH)
To OUTPUT LEVEL control, RV801-(L-CH)
To a-m conv./i-f amplifier board, R334
To ground
To OUTPUT LEVEL control, RV802-(R-CH)
To OUTPUT JACK J805 (FIXED)-(R-CH)
To power supply board, Q701 (E)
To headphone amplifier board, R602
To HI-BLEND SW, S3-1
To FUNCTION SW, S1-1R-8
To FUNCTION SW, S1-1R-10
To DE-EMPHASIS SW, S7
To STEREO LAMP (PL7) (through terminal strip 1L1)
To STEREO LAMP (PL7) (through terminal strip 1L1)
To INS board, D504 (cathode)
To INS board, R552
To FUNCTION SW, S1-1R-4
To fm i-f amplifier board, Q210 (C)
To INS board, D501 (cathode)
To INS board, D506 (anode)
To HI-BLEND SW, S3-3
To FUNCTION SW, S1-1R-2
To FUNCTIOE SW, S1-1R-5
To headphone amplifier board, R601
WHT
BLU
GRY
BLK
RED
GRN
ORG
YEL
VLT
WHT/VLT
LPF401
MU401
T401
Q401 2SK23
Q402 2SC633A
Q403 2SC710
Q404 2SC634A
Q405 2SK23
Q406 2SK23
Q407 2SC631A
Q408 2SC631A
Q409 2SC633A
Q410 2SC633A
Q411 2SC633A
Q412 2SC633A
D401 ~ D401 1S1555
D405 ~ D408 1T22A
D409 1S1555
12



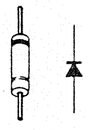
2SK23



2SC710



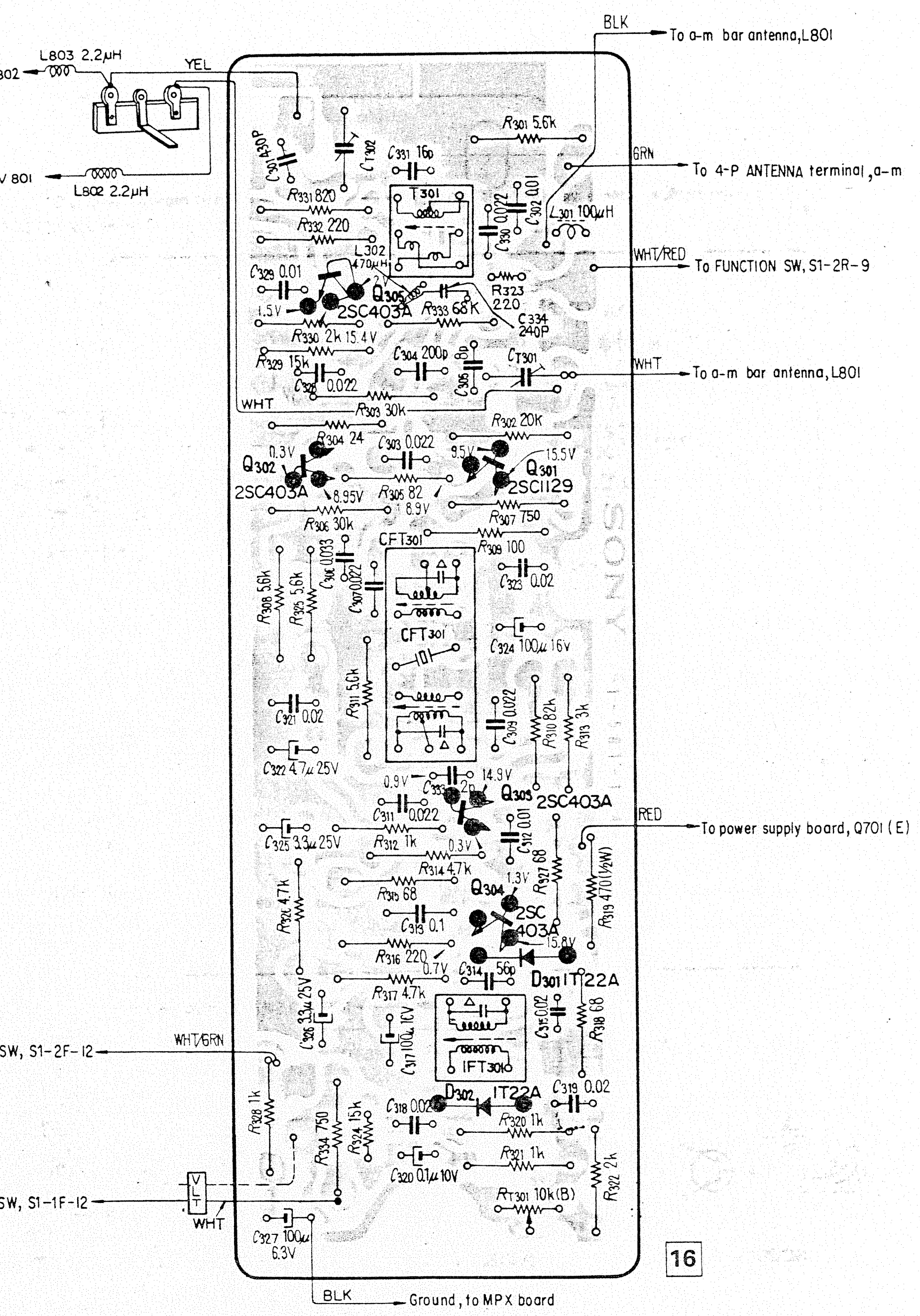
2SC631A
2SC633A
2SC634A

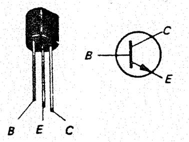


1S1555
1T22A

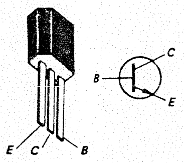
5-5. MOUNTING DIAGRAM – A-m CONV/I-f Amp Board –

– Conductor Side –

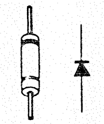

BLK
To a-m bar antenna, L801
L803 2.2μH
To CV802
YEL
To CV 801
L802 2.2μH
R301 5.6k
GRN
To 4-P ANTENNA terminal, a-m
C301 430P
CT302
C331 16p
R331 820
R332 220
T301
C330 0.022
C302 0.01
L301 100μH
WHT/RED
To FUNCTION SW, S1-2R-9
L302 470μH
C329 0.01
1.5V
Q305 2SC403A
R333 68K
R323 220
C334 240P
R330 2k 15.4V
R329 15k
C304 200p
C305 80p
CT301
WHT
To a-m bar antenna, L801
C328 0.022
WHT
R303 30k
R302 20K
R304 24
C303 0.022
0.3V
Q302 2SC403A
9.5V
15.5V
Q301 2SC1129
8.95V
R305 82
8.9V
R306 30k
R307 750
CFT301
R309 100
C323 0.02
R308 5.6k
R325 5.6k
C306 0.033
C307 0.022
CFT301
C324 100μ 16V
R311 5.6k
C321 0.02
C309 0.022
R310 82k
R313 3k
C322 4.7μ 25V
0.9V
C333 2p
14.9V
Q303 2SC403A
C311 0.022
RED
To power supply board, Q701 (E)
C325 3.3μ 25V
R312 1k
0.3V
C312 0.01
R314 4.7k
R327 68
R319 470 (1/2W)
R326 4.7k
R315 68
1.3V
Q304 2SC403A
C313 0.1
R316 220
0.7V
15.8V
C314 56p
D301 1T22A
R317 4.7k
C326 3.3μ 25V
C317 100μ 10V
IFT301
C315 0.02
R318 68
To FUNCTION SW, S1-2F-12
WHT/GRN
R328 1k
D302 1T22A
C319 0.02
C318 0.02
R320 1k
R334 750
R324 15k
R321 1k
C320 0.1μ 10V
R322 2k
To FUNCTION SW, S1-1F-12
V L T
WHT
RT301 10k(B)
C327 100μ 6.3V
BLK
Ground, to MPX board
SONY
16



2SC1129



2SC403A

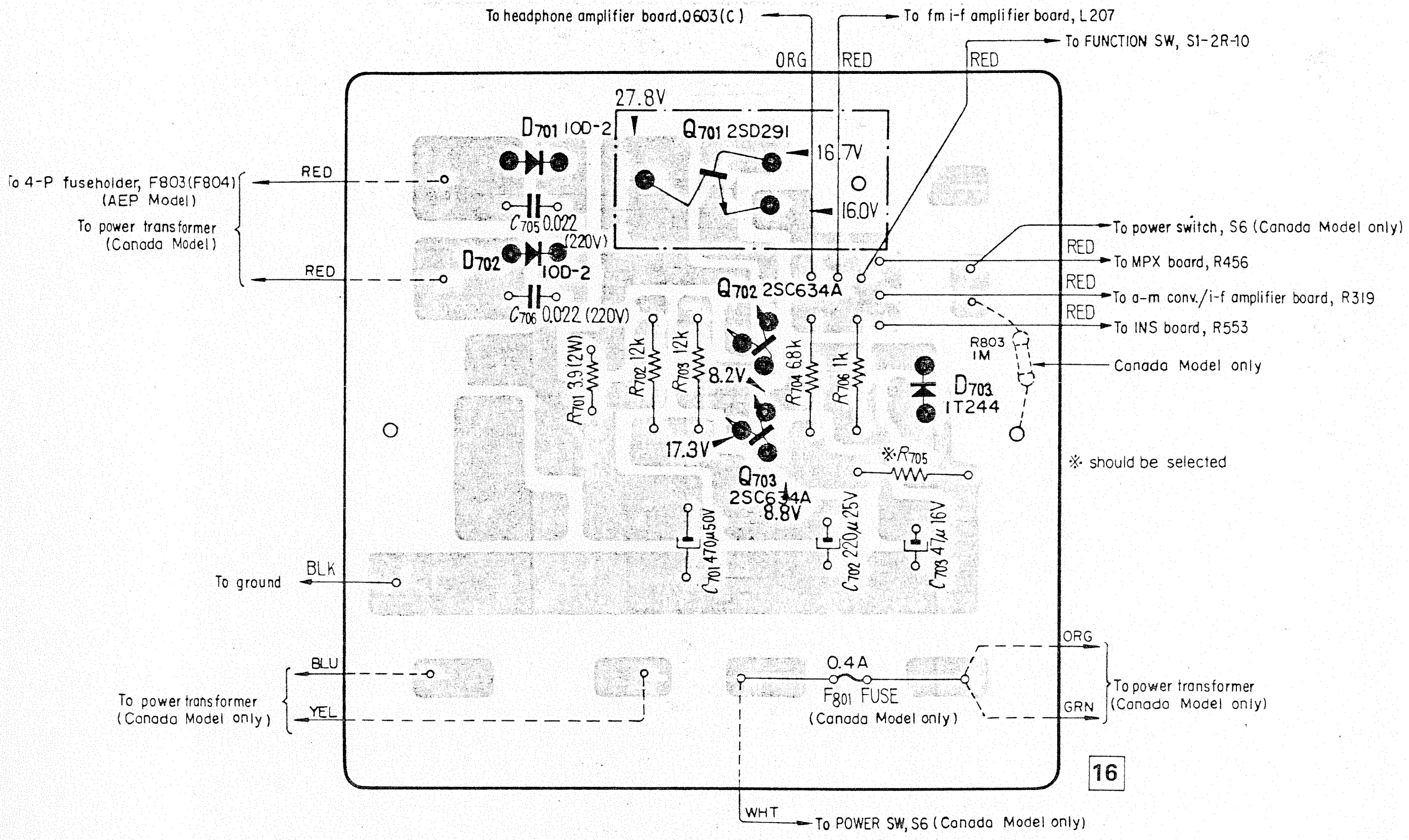


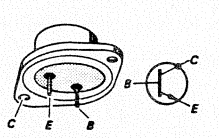
1T22A

5-6. MOUNTING DIAGRAM – Power Supply Board –

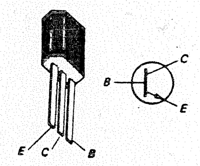
– Conductor Side –

Note: AEP Model ..... Serial No. 900,001 and later
Canada Model .. Serial No. 700,001 and later

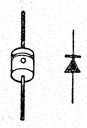

To headphone amplifier board, Q603(C)
To fm i-f amplifier board, L207
To FUNCTION SW, S1-2R-10
ORG
RED
RED
27.8V
D701 10D-2
Q701 2SD291
16.7V
16.0V
To 4-P fuseholder, F803(F804) (AEP Model)
To power transformer (Canada Model)
RED
RED
C705 0.022 (220V)
D702 10D-2
C706 0.022 (220V)
Q702 2SC634A
To power switch, S6 (Canada Model only)
RED
To MPX board, R456
RED
To a-m conv./i-f amplifier board, R319
RED
To INS board, R553
R803 1M
Canada Model only
R701 3.9 (2W)
R702 12k
R703 12k
8.2V
R704 6.8k
R706 1k
D703 1T244
17.3V
※R705
※: should be selected
Q703 2SC634A
8.8V
C701 470µ 50V
C702 220µ 25V
C703 47µ 16V
To ground
BLK
ORG
BLU
0.4A
F801 FUSE (Canada Model only)
To power transformer (Canada Model only)
To power transformer (Canada Model only)
YEL
GRN
16
WHT
To POWER SW, S6 (Canada Model only)



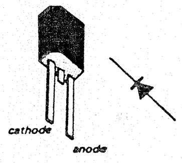
2SD291



2SC634A

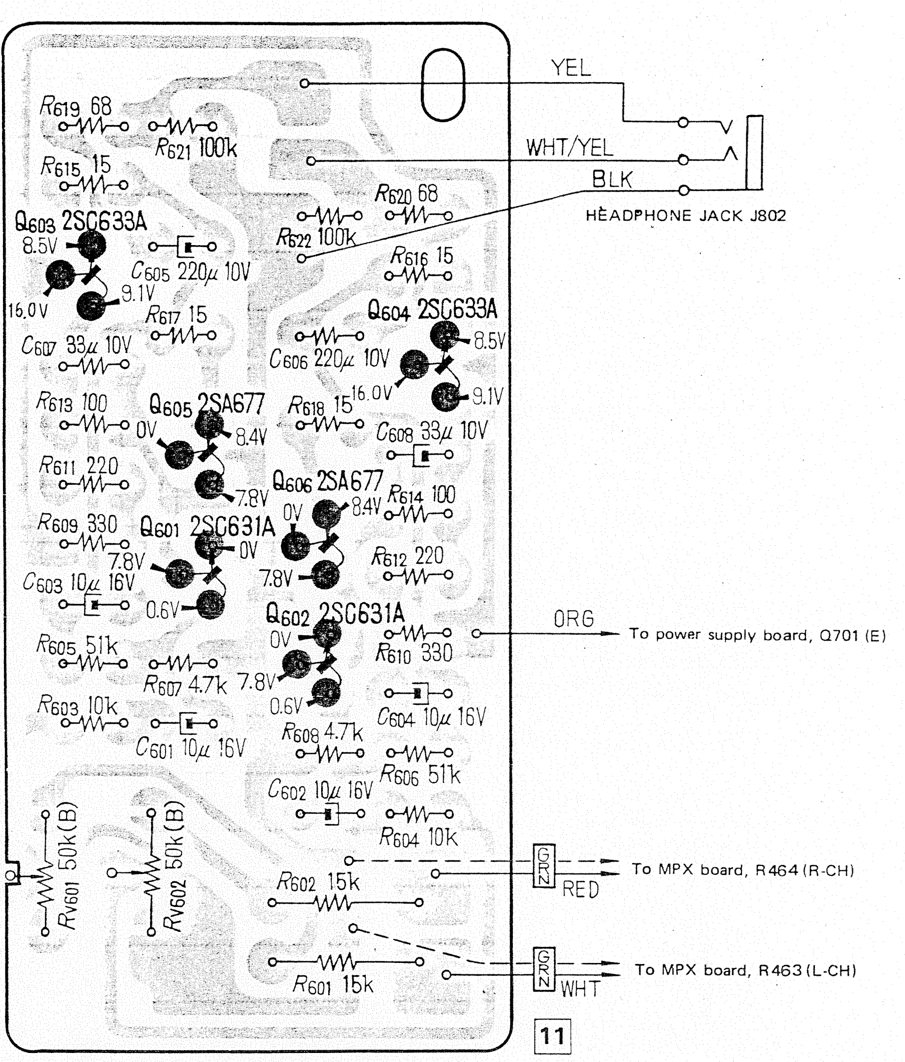


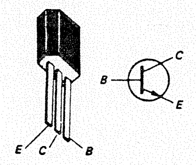
10D-2


cathode
anode

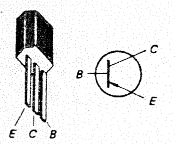
1T244

5-7. MOUNTING DIAGRAM – Headphone Amp Board –


YEL
WHT/YEL
BLK
HEADPHONE JACK J802
R619 68
R621 100k
R615 15
R620 68
R622 100k
Q603 2SC633A
8.5V
16.0V
9.1V
C605 220μ 10V
R616 15
R617 15
Q604 2SC633A
8.5V
C607 33μ 10V
C606 220μ 10V
16.0V
9.1V
R613 100
Q605 2SA677
0V
8.4V
R618 15
C608 33μ 10V
R611 220
7.8V
Q606 2SA677
0V
8.4V
R614 100
R609 330
Q601 2SC631A
0V
7.8V
R612 220
7.8V
C603 10μ 16V
0.6V
Q602 2SC631A
ORG
To power supply board, Q701 (E)
R605 51k
0V
R610 330
R607 4.7k
7.8V
R603 10k
0.6V
C604 10μ 16V
C601 10μ 16V
R608 4.7k
R606 51k
C602 10μ 16V
R604 10k
RV601 50k(B)
RV602 50k(B)
R602 15k
GRN
RED
To MPX board, R464 (R-CH)
R601 15k
GRN
WHT
To MPX board, R463 (L-CH)
11



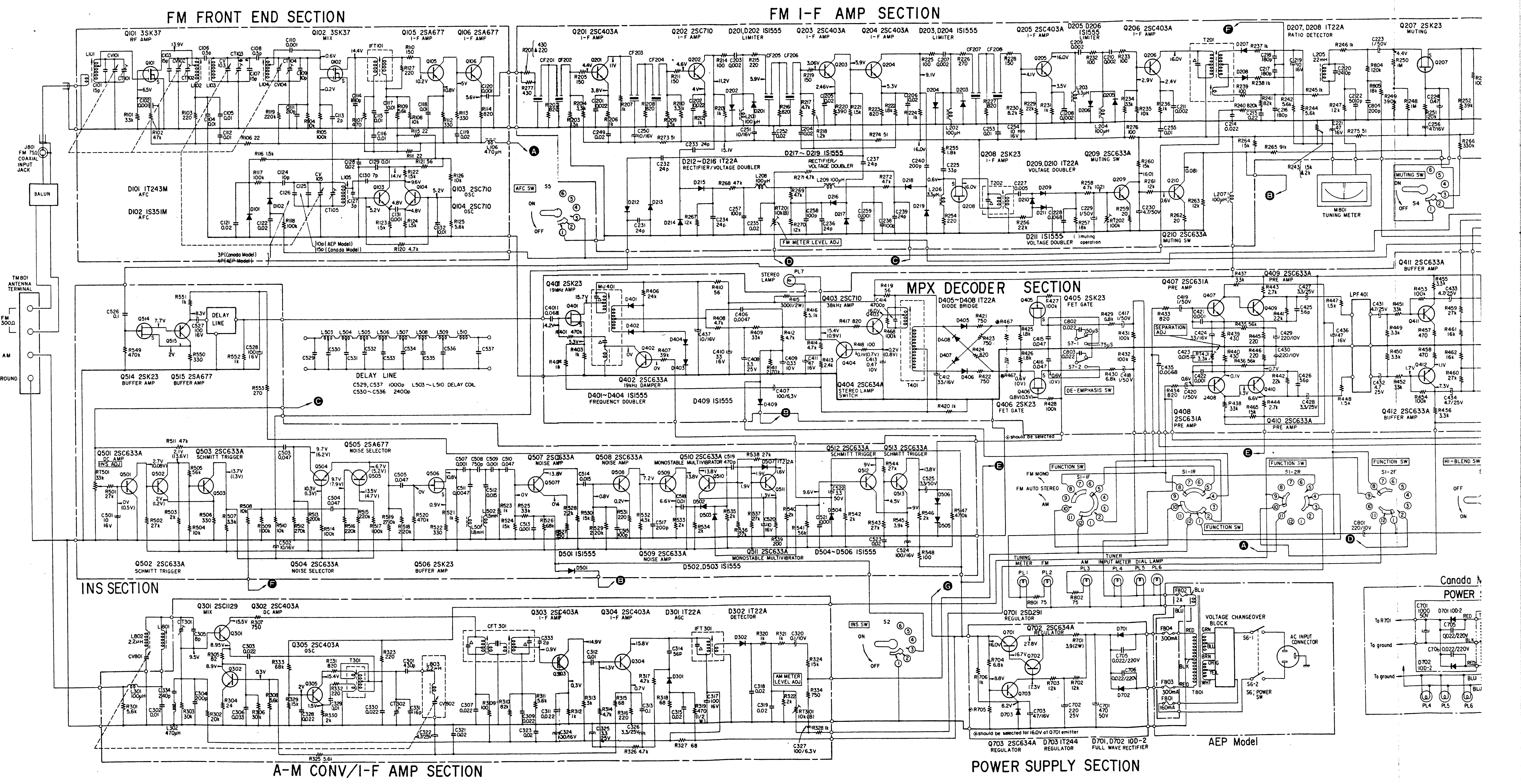
2SC631A
2SC633A

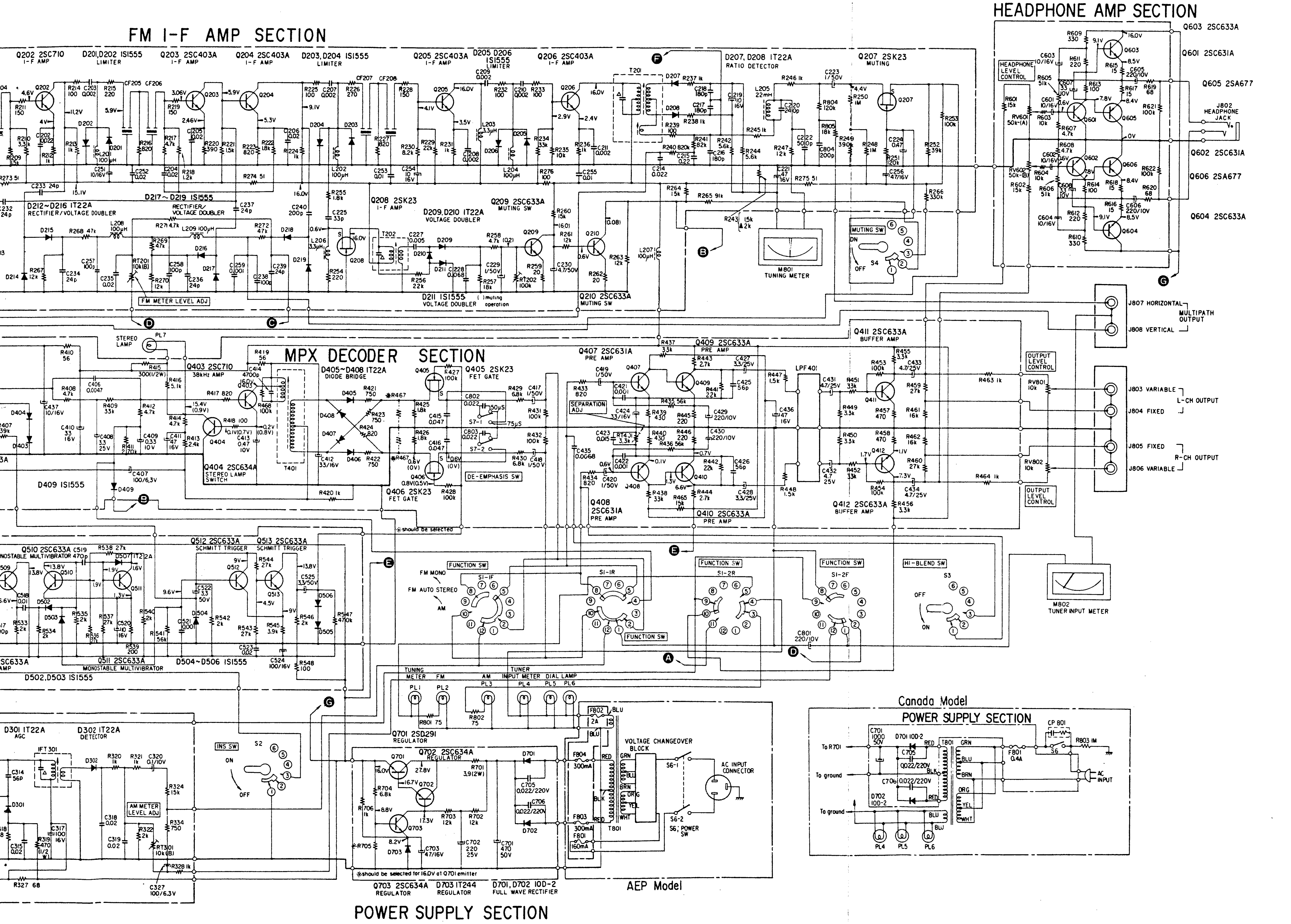


2SA677

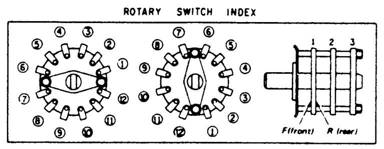
MEMO

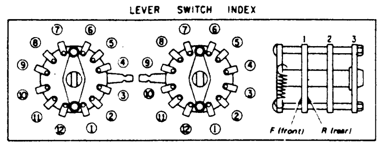
5-8. SCHEMATIC DIAGRAM


FM FRONT END SECTION
FM I-F AMP SECTION
MPX DECODER SECTION
INS SECTION
A-M CONV/I-F AMP SECTION
POWER SUPPLY SECTION
AEP Model
Canada
POWER
Q101 3SK37 RF AMP
Q102 3SK37 MIX
Q105 2SA677 I-F AMP
Q106 2SA677 I-F AMP
Q103 2SC710 OSC
Q104 2SC710 OSC
D101 1T243M AFC
D102 1S351M AFC
J801 FM 75Ω COAXIAL INPUT JACK
BALUN
TM801 ANTENNA TERMINAL
FM 300Ω
AM
GROUND
AFC SW
S5
ON
OFF
Q201 2SC403A I-F AMP
Q202 2SC710 I-F AMP
D201, D202 1S1555 LIMITER
Q203 2SC403A I-F AMP
Q204 2SC403A I-F AMP
D203, D204 1S1555 LIMITER
Q205 2SC403A I-F AMP
D205 D206 1S1555 LIMITER
Q206 2SC403A I-F AMP
D207, D208 1T22A RATIO DETECTOR
Q207 2SK23 MUTING
D212~D216 1T22A RECTIFIER/VOLTAGE DOUBLER
D217~D219 1S1555
RECTIFIER/VOLTAGE DOUBLER
Q208 2SK23 I-F AMP
D209, D210 1T22A VOLTAGE DOUBLER
Q209 2SC633A MUTING SW
D211 1S1555 VOLTAGE DOUBLER
Q210 2SC633A MUTING SW
FM METER LEVEL ADJ
M801 TUNING METER
MUTING SW
S4
Q514 2SK23 BUFFER AMP
Q515 2SA677 BUFFER AMP
DELAY LINE
C529, C537 1000p L503~L510 DELAY COIL
C530~C536 2400p
Q401 2SK23 19kHz AMP
MU401
Q402 2SC633A 19kHz DAMPER
D401~D404 1S1555 FREQUENCY DOUBLER
D409 1S1555
STEREO LAMP
PL7
Q403 2SC710 38kHz AMP
Q404 2SC634A STEREO LAMP SWITCH
D405~D408 1T22A DIODE BRIDGE
T401
Q405 2SK23 FET GATE
Q406 2SK23 FET GATE
DE-EMPHASIS SW
SEPARATION ADJ
Q407 2SC631A PRE AMP
Q408 2SC631A PRE AMP
Q409 2SC633A PRE AMP
Q410 2SC633A PRE AMP
LPF401
Q411 2SC633A BUFFER AMP
Q412 2SC633A BUFFER AMP
* should be selected
Q501 2SC633A DC AMP
INS ADJ
Q502 2SC633A SCHMITT TRIGGER
Q503 2SC633A SCHMITT TRIGGER
Q504 2SC633A NOISE SELECTOR
Q505 2SA677 NOISE SELECTOR
Q506 2SK23 BUFFER AMP
Q507 2SC633A NOISE AMP
Q508 2SC633A NOISE AMP
Q509 2SC633A NOISE AMP
Q510 2SC633A MONOSTABLE MULTIVIBRATOR
Q511 2SC633A MONOSTABLE MULTIVIBRATOR
D501 1S1555
D502, D503 1S1555
Q512 2SC633A SCHMITT TRIGGER
Q513 2SC633A SCHMITT TRIGGER
D504~D506 1S1555
FUNCTION SW
FM MONO
FM AUTO STEREO
AM
S1-1F
S1-1R
S1-2R
S1-2F
HI-BLEND SW
TUNING METER
FM
AM
TUNER INPUT METER
DIAL LAMP
PL1 PL2 PL3 PL4 PL5 PL6
Q301 2SC1129 MIX
Q302 2SC403A DC AMP
Q305 2SC403A OSC
CFT301
Q303 2SC403A I-F AMP
Q304 2SC403A I-F AMP
D301 1T22A AGC
D302 1T22A DETECTOR
IFT301
AM METER LEVEL ADJ
INS SW
S2
Q701 2SD291 REGULATOR
Q702 2SC634A REGULATOR
Q703 2SC634A REGULATOR
D703 1T244 REGULATOR
D701, D702 10D-2 FULL WAVE RECTIFIER
* should be selected for 16.0V at Q701 emitter
VOLTAGE CHANGEOVER BLOCK
AC INPUT CONNECTOR
S6-1
S6-2 POWER SW
T801
F801 F802 F803 F804
To R701
To ground


FM I-F AMP SECTION
Q202 2SC710 I-F AMP
D201,D202 1S1555 LIMITER
Q203 2SC403A I-F AMP
Q204 2SC403A I-F AMP
D203,D204 1S1555 LIMITER
Q205 2SC403A I-F AMP
D205,D206 1S1555 LIMITER
Q206 2SC403A I-F AMP
D207,D208 1T22A RATIO DETECTOR
Q207 2SK23 MUTING
D212~D216 1T22A RECTIFIER/VOLTAGE DOUBLER
D217~D219 1S1555 RECTIFIER/VOLTAGE DOUBLER
Q208 2SK23 I-F AMP
D209,D210 1T22A VOLTAGE DOUBLER
Q209 2SC633A MUTING SW
D211 1S1555 VOLTAGE DOUBLER
Q210 2SC633A MUTING SW
FM METER LEVEL ADJ
M801 TUNING METER
MUTING SW
S4
HEADPHONE AMP SECTION
HEADPHONE LEVEL CONTROL
Q603 2SC633A
Q601 2SC631A
Q605 2SA677
J802 HEADPHONE JACK
Q602 2SC631A
Q606 2SA677
Q604 2SC633A
MPX DECODER SECTION
STEREO LAMP
PL7
Q403 2SC710 38kHz AMP
D405~D408 1T22A DIODE BRIDGE
Q405 2SK23 FET GATE
Q404 2SC634A STEREO LAMP SWITCH
T401
Q406 2SK23 FET GATE
DE-EMPHASIS SW
D409 1S1555
Q407 2SC631A PRE AMP
Q408 2SC631A PRE AMP
Q409 2SC633A PRE AMP
Q410 2SC633A PRE AMP
SEPARATION ADJ
LPF401
Q411 2SC633A BUFFER AMP
Q412 2SC633A BUFFER AMP
J807 HORIZONTAL
J808 VERTICAL
MULTIPATH OUTPUT
OUTPUT LEVEL CONTROL
J803 VARIABLE
J804 FIXED
L-CH OUTPUT
J805 FIXED
J806 VARIABLE
R-CH OUTPUT
※should be selected
Q510 2SC633A MONOSTABLE MULTIVIBRATOR
Q512 2SC633A SCHMITT TRIGGER
Q513 2SC633A SCHMITT TRIGGER
Q511 2SC633A MONOSTABLE MULTIVIBRATOR
D504~D506 1S1555
D502,D503 1S1555
FUNCTION SW
FM MONO
FM AUTO STEREO
AM
S1-1F
S1-1R
S1-2R
S1-2F
HI-BLEND SW
S3
OFF
ON
M802 TUNER INPUT METER
INS SW
S2
TUNING METER
FM
AM
TUNER INPUT METER
DIAL LAMP
PL1 PL2 PL3 PL4 PL5 PL6
D301 1T22A AGC
D302 1T22A DETECTOR
IFT301
AM METER LEVEL ADJ
Q701 2SD291 REGULATOR
Q702 2SC634A REGULATOR
VOLTAGE CHANGEOVER BLOCK
AC INPUT CONNECTOR
S6; POWER SW
T801
※should be selected for 16.0V at Q701 emitter
Q703 2SC634A REGULATOR
D703 1T244 REGULATOR
D701,D702 10D-2 FULL WAVE RECTIFIER
AEP Model
POWER SUPPLY SECTION
Canada Model
POWER SUPPLY SECTION
To R701
To ground
To ground
CP801
AC INPUT

Ref. No.	Description	Position
S1	FUNCTION SW (AM-FM AUTO STEREO-FM MONO)	AM
S2	INS SW (ON-OFF)	ON
S3	HI-BLEND SW (ON-OFF)	OFF
S4	MUTING SW (ON-OFF)	ON
S5	AFC SW (ON-OFF)	ON
S6	POWER SW	OFF
S7	DE-EMPHASIS SW (50μs – 75μs)	50μs


ROTARY SWITCH INDEX
F(front)
R(rear)


LEVER SWITCH INDEX
F(front)
R(rear)

Note:

All resistance values are in ohms. k = 1,000, M = 1,000 k.

All capacitance values are in μF except as indicated with p, which means μμF.

All voltages represent an average value and should hold within ±10%.

All voltages are dc measured with a VOM which has an input impedance of 20 kohms/volt. No signal in.

▲ AEP Model only

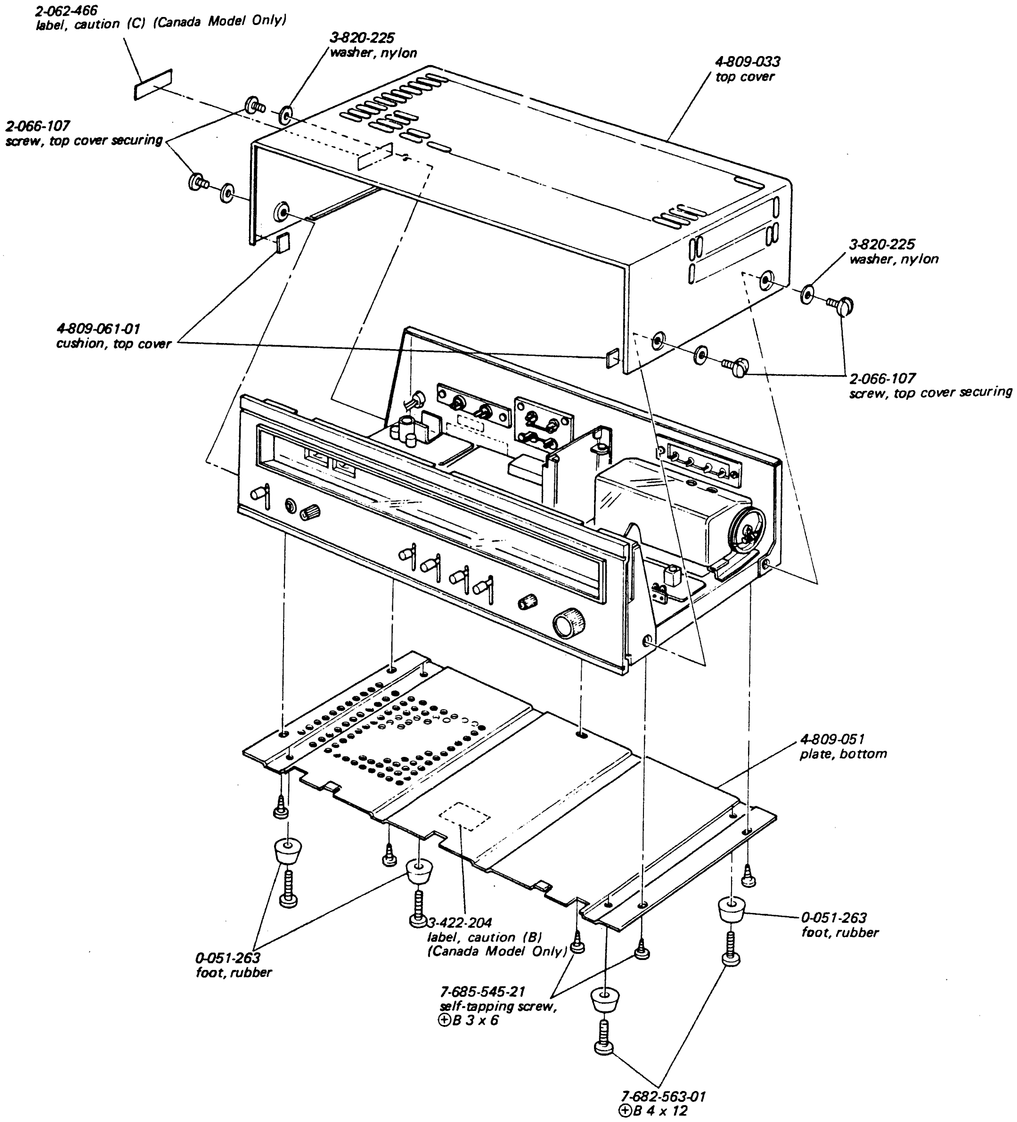
(Serial No. up to 901,900)

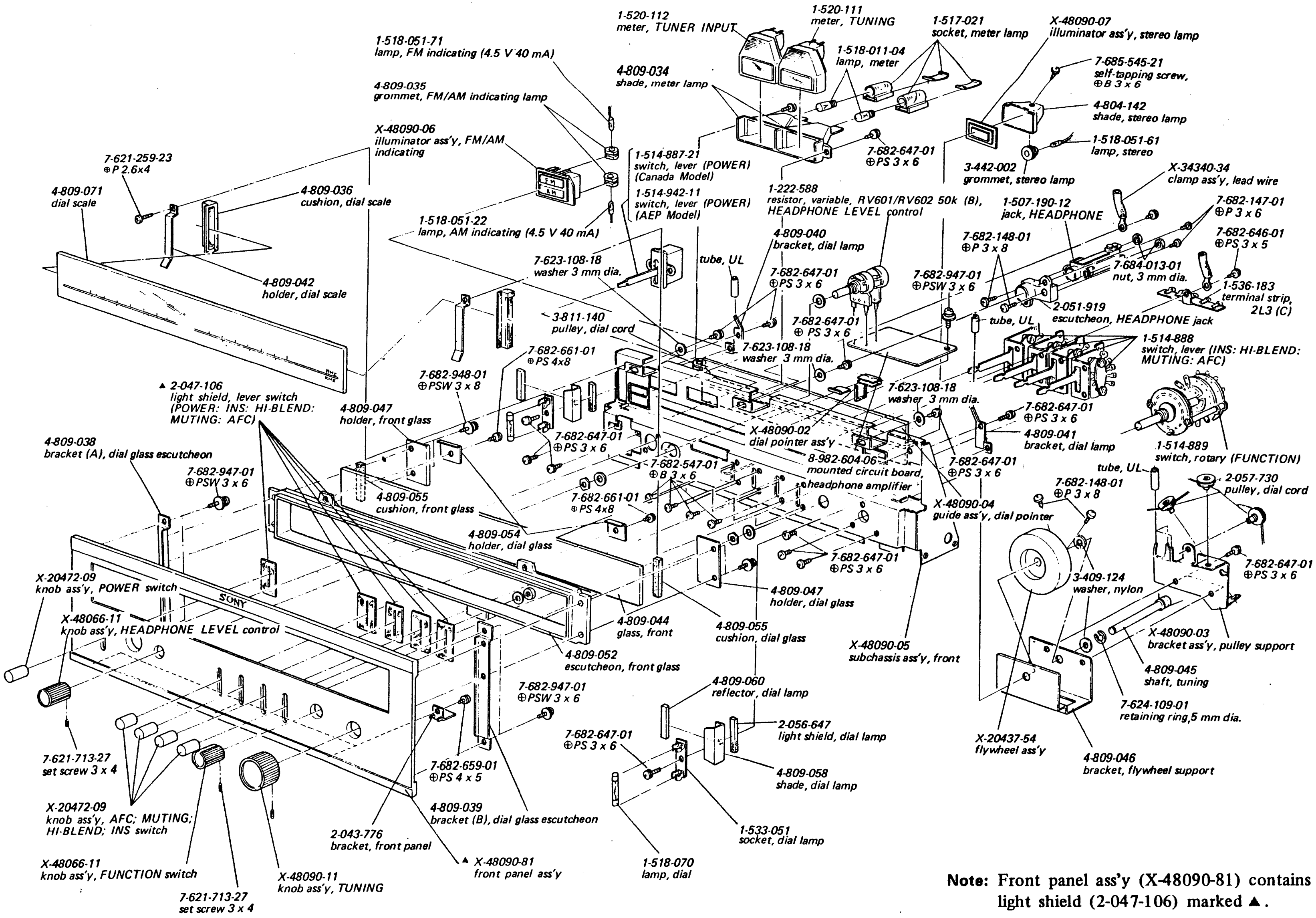
Note: AEP Model ..... Serial No. 900,001 and later
Canada Model .. Serial No. 700,001 and later

SECTION 6
EXPLODED VIEWS

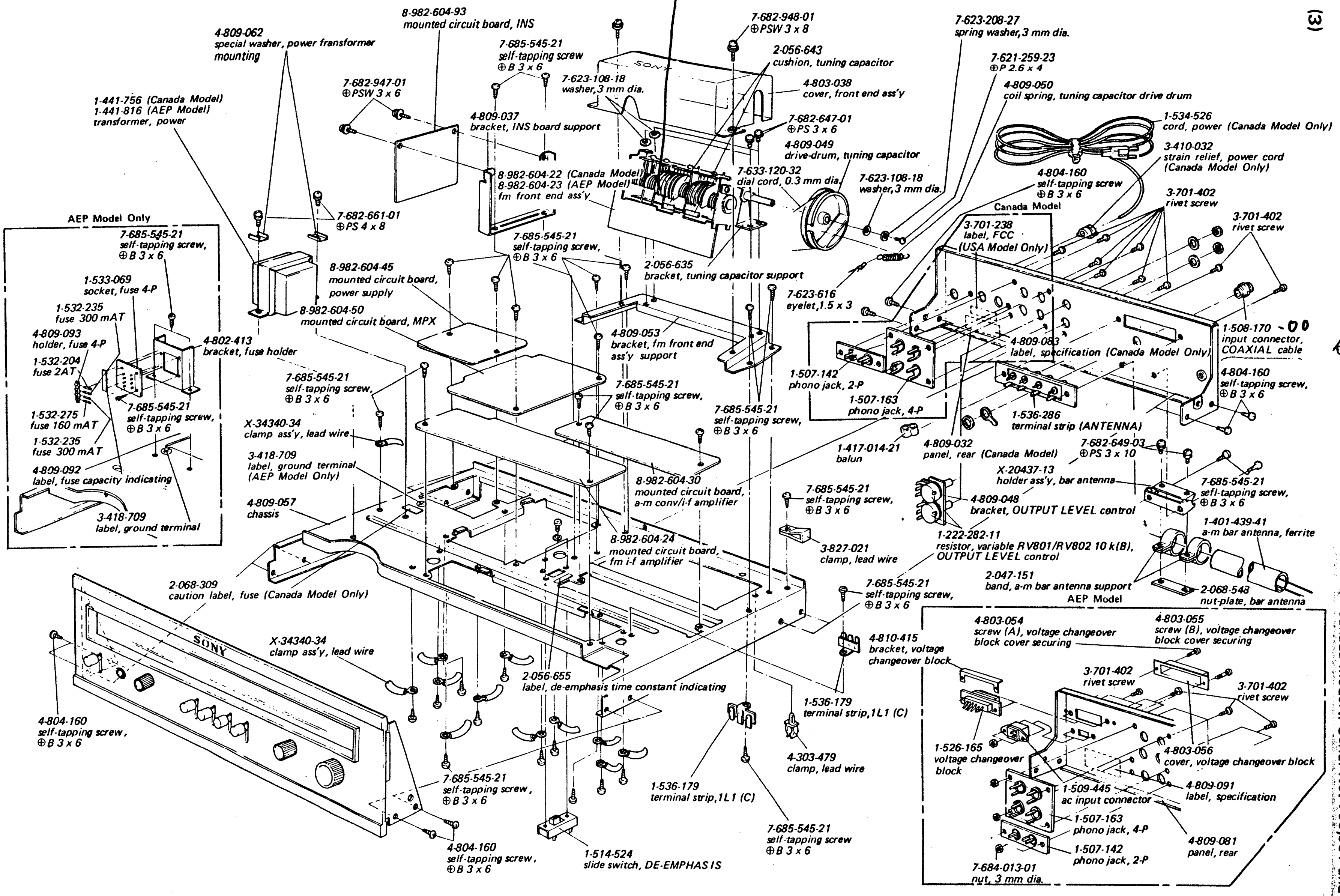
(1)

Note: AEP Model ..... Serial No. 900,001 and later
Canada Model .. Serial No. 700,001 and later


2-062-466
label, caution (C) (Canada Model Only)
3-820-225
washer, nylon
4-809-033
top cover
2-066-107
screw, top cover securing
3-820-225
washer, nylon
4-809-061-01
cushion, top cover
2-066-107
screw, top cover securing
4-809-051
plate, bottom
0-051-263
foot, rubber
3-422-204
label, caution (B)
(Canada Model Only)
0-051-263
foot, rubber
7-685-545-21
self-tapping screw,
⊕B 3 x 6
7-682-563-01
⊕B 4 x 12


1-520-112
meter, TUNER INPUT
1-520-111
meter, TUNING
1-517-021
socket, meter lamp
X-48090-07
illuminator ass'y, stereo lamp
1-518-051-71
lamp, FM indicating (4.5 V 40 mA)
1-518-011-04
lamp, meter
4-809-034
shade, meter lamp
7-685-545-21
self-tapping screw,
⊕B 3 x 6
4-809-035
grommet, FM/AM indicating lamp
4-804-142
shade, stereo lamp
X-48090-06
illuminator ass'y, FM/AM
indicating
1-518-051-61
lamp, stereo
7-621-259-23
⊕P 2.6x4
1-514-887-21
switch, lever (POWER)
(Canada Model)
7-682-647-01
⊕PS 3 x 6
3-442-002
grommet, stereo lamp
X-34340-34
clamp ass'y, lead wire
4-809-071
dial scale
4-809-036
cushion, dial scale
1-514-942-11
switch, lever (POWER)
(AEP Model)
1-222-588
resistor, variable, RV601/RV602 50k (B),
HEADPHONE LEVEL control
1-507-190-12
jack, HEADPHONE
7-682-147-01
⊕P 3 x 6
1-518-051-22
lamp, AM indicating (4.5 V 40 mA)
4-809-040
bracket, dial lamp
7-682-148-01
⊕P 3 x 8
7-682-646-01
⊕PS 3 x 5
7-623-108-18
washer 3 mm dia.
tube, UL
7-682-647-01
⊕PS 3 x 6
7-682-947-01
⊕PSW 3 x 6
7-684-013-01
nut, 3 mm dia.
4-809-042
holder, dial scale
1-536-183
terminal strip,
2L3 (C)
2-051-919
escutcheon, HEADPHONE jack
3-811-140
pulley, dial cord
7-682-647-01
⊕ PS 3 x 6
tube, UL
7-682-661-01
⊕PS 4x8
7-623-108-18
washer 3 mm dia.
1-514-888
switch, lever (INS: HI-BLEND:
MUTING: AFC)
▲ 2-047-106
light shield, lever switch
(POWER: INS: HI-BLEND:
MUTING: AFC)
7-682-948-01
⊕PSW 3 x 8
7-623-108-18
washer 3 mm dia.
4-809-047
holder, front glass
7-682-647-01
⊕PS 3 x 6
X-48090-02
dial pointer ass'y
7-682-647-01
⊕PS 3 x 6
4-809-041
bracket, dial lamp
4-809-038
bracket (A), dial glass escutcheon
8-982-604-06
mounted circuit board,
headphone amplifier
1-514-889
switch, rotary (FUNCTION)
7-682-547-01
⊕B 3 x 6
7-682-647-01
⊕PS 3 x 6
7-682-947-01
⊕PSW 3 x 6
tube, UL
2-057-730
pulley, dial cord
4-809-055
cushion, front glass
7-682-661-01
⊕PS 4x8
X-48090-04
guide ass'y, dial pointer
7-682-148-01
⊕P 3 x 8
4-809-054
holder, dial glass
7-682-647-01
⊕PS 3 x 6
7-682-647-01
⊕PS 3 x 6
X-20472-09
knob ass'y, POWER switch
3-409-124
washer, nylon
4-809-047
holder, dial glass
X-48066-11
knob ass'y, HEADPHONE LEVEL control
4-809-044
glass, front
4-809-055
cushion, dial glass
X-48090-03
bracket ass'y, pulley support
X-48090-05
subchassis ass'y, front
4-809-052
escutcheon, front glass
4-809-045
shaft, tuning
7-682-947-01
⊕PSW 3 x 6
4-809-060
reflector, dial lamp
7-624-109-01
retaining ring, 5 mm dia.
2-056-647
light shield, dial lamp
7-682-647-01
⊕PS 3 x 6
X-20437-54
flywheel ass'y
7-621-713-27
set screw 3 x 4
7-682-659-01
⊕PS 4 x 5
4-809-058
shade, dial lamp
4-809-046
bracket, flywheel support
X-20472-09
knob ass'y, AFC; MUTING;
HI-BLEND; INS switch
4-809-039
bracket (B), dial glass escutcheon
2-043-776
bracket, front panel
1-533-051
socket, dial lamp
X-48066-11
knob ass'y, FUNCTION switch
▲ X-48090-81
front panel ass'y
1-518-070
lamp, dial
X-48090-11
knob ass'y, TUNING
7-621-713-27
set screw 3 x 4
SONY
FM
AM

Note: Front panel ass'y (X-48090-81) contains light shield (2-047-106) marked ▲.


4-809-062
special washer, power transformer mounting
1-441-756 (Canada Model)
1-441-816 (AEP Model)
transformer, power
8-982-604-93
mounted circuit board, INS
7-682-947-01
⊕PSW 3 x 6
7-685-545-21
self-tapping screw
⊕B 3 x 6
7-623-108-18
washer, 3 mm dia.
4-809-037
bracket, INS board support
7-682-948-01
⊕PSW 3 x 8
2-056-643
cushion, tuning capacitor
4-803-038
cover, front end ass'y
7-682-647-01
⊕PS 3 x 6
4-809-049
drive-drum, tuning capacitor
7-633-120-32
dial cord, 0.3 mm dia.
7-623-108-18
washer, 3 mm dia.
7-623-208-27
spring washer, 3 mm dia.
7-621-259-23
⊕P 2.6 x 4
4-809-050
coil spring, tuning capacitor drive drum
1-534-526
cord, power (Canada Model Only)
3-410-032
strain relief, power cord
(Canada Model Only)
8-982-604-22 (Canada Model)
8-982-604-23 (AEP Model)
fm front end ass'y
7-682-661-01
⊕PS 4 x 8
AEP Model Only
7-685-545-21
self-tapping screw,
⊕B 3 x 6
1-533-069
socket, fuse 4-P
1-532-235
fuse 300 mAT
4-809-093
holder, fuse 4-P
1-532-204
fuse 2AT
4-802-413
bracket, fuse holder
7-685-545-21
self-tapping screw,
⊕B 3 x 6
1-532-275
fuse 160 mAT
1-532-235
fuse 300 mAT
4-809-092
label, fuse capacity indicating
3-418-709
label, ground terminal
8-982-604-45
mounted circuit board,
power supply
8-982-604-50
mounted circuit board, MPX
7-685-545-21
self-tapping screw,
⊕B 3 x 6
2-056-635
bracket, tuning capacitor support
4-804-160
self-tapping screw
⊕B 3 x 6
Canada Model
3-701-402
rivet screw
3-701-402
rivet screw
3-701-238
label, FCC
(USA Model Only)
7-623-616
eyelet, 1.5 x 3
4-809-053
bracket, fm front end
ass'y support
7-685-545-21
self-tapping screw,
⊕B 3 x 6
7-685-545-21
self-tapping screw,
⊕B 3 x 6
7-685-545-21
self-tapping screw,
⊕B 3 x 6
4-809-083
label, specification (Canada Model Only)
1-508-170 ~00
input connector,
COAXIAL cable
Ant. Kabel
1-507-142
phono jack, 2-P
1-507-163
phono jack, 4-P
4-804-160
self-tapping screw,
⊕B 3 x 6
1-536-286
terminal strip (ANTENNA)
X-34340-34
clamp ass'y, lead wire
3-418-709
label, ground terminal
(AEP Model Only)
4-809-057
chassis
1-417-014-21
balun
4-809-032
panel, rear (Canada Model)
7-682-649-03
⊕PS 3 x 10
X-20437-13
holder ass'y, bar antenna
7-685-545-21
sefl-tapping screw,
⊕B 3 x 6
8-982-604-30
mounted circuit board,
a-m conv/i-f amplifier
7-685-545-21
self-tapping screw,
⊕B 3 x 6
4-809-048
bracket, OUTPUT LEVEL control
1-401-439-41
a-m bar antenna, ferrite
8-982-604-24
mounted circuit board,
fm i-f amplifier
3-827-021
clamp, lead wire
1-222-282-11
resistor, variable RV801/RV802 10 k(B),
OUTPUT LEVEL control
2-047-151
band, a-m bar antenna support
2-068-548
nut-plate, bar antenna
AEP Model
2-068-309
caution label, fuse (Canada Model Only)
7-685-545-21
self-tapping screw,
⊕B 3 x 6
4-803-054
screw (A), voltage changeover
block cover securing
4-803-055
screw (B), voltage changeover
block cover securing
X-34340-34
clamp ass'y, lead wire
4-810-415
bracket, voltage
changeover block
3-701-402
rivet screw
3-701-402
rivet screw
2-056-655
label, de-emphasis time constant indicating
1-536-179
terminal strip, 1L1 (C)
4-804-160
self-tapping screw,
⊕B 3 x 6
1-526-165
voltage changeover
block
4-803-056
cover, voltage changeover block
4-303-479
clamp, lead wire
1-509-445
ac input connector
4-809-091
label, specification
7-685-545-21
self-tapping screw,
⊕B 3 x 6
1-536-179
terminal strip, 1L1 (C)
1-507-163
phono jack, 4-P
4-809-081
panel, rear
4-804-160
self-tapping screw,
⊕B 3 x 6
1-514-524
slide switch, DE-EMPHASIS
7-685-545-21
self-tapping screw
⊕B 3 x 6
1-507-142
phono jack, 2-P
7-684-013-01
nut, 3 mm dia.
SONY

Note: AEP Model .... Serial No. 900,001 and later
Canada Model : Serial No. 700,001 and later

SECTION 7
ELECTRICAL PARTS LIST

Note: AEP Model ..... Serial No. 900,001 and later
Canada Model .. Serial No. 700,001 and later

MOUNTED CIRCUIT BOARDS

Ref. No.	*Part No.*	*Description*
	8-982-604-22	fm front-end ass'y (Canada Model only)
	8-982-604-23	fm front-end ass'y (AEP Model only)
	8-982-604-24	fm i-f amplifier circuit board
	8-982-604-30	a-m conv/i-f amplifier circuit board
	8-982-604-50	MPX circuit board
	8-982-604-93	INS circuit board
	8-982-604-45	power supply circuit board
	8-982-604-06	headphone amplifier circuit board

SEMICONDUCTORS

Ref. No.	*Part No.*	*Description*
D101		diode 1T243M
D102		diode 1S351M
D201		diode 1S1555
D202		diode 1S1555
D203		diode 1S1555
D204		diode 1S1555
D205		diode 1S1555
D206		diode 1S1555
D207		diode 1T22A
D208		diode 1T22A
D209		diode 1T22A
D210		diode 1T22A
D211		diode 1S1555
D212		diode 1T22A
D213		diode 1T22A
D214		diode 1T22A
D215		diode 1T22A
D216		diode 1T22A
D217		diode 1S1555
D218		diode 1S1555
D219		diode 1S1555
D301		diode 1T22A
D302		diode 1T22A
D401		diode 1S1555
D402		diode 1S1555
D403		diode 1S1555
D404		diode 1S1555
D405		diode 1T22A
D406		diode 1T22A
D407		diode 1T22A
D408		diode 1T22A
D409		diode 1S1555
D501		diode 1S1555
D502		diode 1S1555
D503		diode 1S1555
D504		diode 1S1555
D505		diode 1S1555
D506		diode 1S1555
D507		diode 1T22A
D701		diode 10D-2
D702		diode 10D-2
D703		diode 1T244
Q101		FET 3SK37
Q102		FET 3SK37
Q103		transistor 2SC710
Q104		transistor 2SC710
Q105		transistor 2SA677
Q106		transistor 2SA677
Q201		transistor 2SC403A
Q202		transistor 2SC710
Q203		transistor 2SC403A
Q204		transistor 2SC403A
Q205		transistor 2SC403A
Q206		transistor 2SC403A
Q207		FET 2SK23
Q208		FET 2SK23
Q209		transistor 2SC633A
Q210		transistor 2SC633A
Q301		transistor 2SC1129
Q302		transistor 2SC403A
Q303		transistor 2SC403A
Q304		transistor 2SC403A
Q305		transistor 2SC403A
Q401		FET 2SK23
Q402		transistor 2SC633A
Q403		transistor 2SC710
Q404		transistor 2SC634A
Q405		FET 2SK23
Q406		FET 2SK23
Q407		transistor 2SC631A
Q408		transistor 2SC631A
Q409		transistor 2SC633A
Q410		transistor 2SC633A
Q411		transistor 2SC633A
Q412		transistor 2SC633A
Q501		transistor 2SC633A
Q502		transistor 2SC633A
Q503		transistor 2SC633A
Q504		transistor 2SC633A
Q505		transistor 2SA677
Q506		FET 2SK23

Ref. No.	*Part No.*	*Description*
Q507		transistor 2SC633A
Q508		transistor 2SC633A
Q509		transistor 2SC633A
Q510		transistor 2SC633A
Q511		transistor 2SC633A
Q512		transistor 2SC633A
Q513		transistor 2SC633A
Q514		FET 2SK23
Q515		transistor 2SA677
Q601		transistor 2SC631A
Q602		transistor 2SC631A
Q603		transistor 2SC633A
Q604		transistor 2SC633A
Q605		transistor 2SA677
Q606		transistor 2SA677
Q701		transistor 2SD291
Q702		transistor 2SC634A
Q703		transistor 2SC634A

TRANSFORMERS, COILS AND INDUCTORS

Ref. No.	*Part No.*	*Description*	
B1	1-417-014	balun	
CFT301	1-403-150	CFT	
IFT101	1-403-295	IFT, fm	
IFT301	1-403-149	IFT, a-m	
L101	1-401-483	coil, fm antenna	
L102	1-425-712	coil, fm (RF1)	
L103	1-425-676	coil, fm (RF2)	
L104	1-425-713	coil, fm (RF3)	
L105	1-405-505	coil, fm osc	
L106	1-407-177	inductor, micro	470μH
L201	1-407-169	inductor, micro	100μH
L202	1-407-169	inductor, micro	100μH
L203	1-407-184	inductor, micro	3.3μH
L204	1-407-169	inductor, micro	100μH
L205	1-407-408	inductor, micro	22 mH
L206	1-407-163	inductor, micro	33μH
L207	1-407-169	inductor, micro	100μH
L208	1-407-169	inductor, micro	100μH
L209	1-407-169	inductor, micro	100μH
L301	1-407-169	inductor, micro	100μH
L302	1-407-177	inductor, micro	470μH
L501	1-407-197	inductor, micro	1.8 mH
L502	1-407-213	inductor, micro	1.5 mH
L503	1-415-044	delay coil (B)	
L504	1-415-044	delay coil (B)	
L505	1-415-044	delay coil (B)	
L506	1-415-044	delay coil (B)	
L507	1-415-044	delay coil (B)	
L508	1-415-044	delay coil (B)	
L509	1-415-044	delay coil (B)	
L510	1-415-043	delay coil (A)	
L801	1-401-439	bar antenna (a-m)	
L802	1-407-182	inductor, micro	2.2μH
L803	1-407-182	inductor, micro	2.2μH
MU401	1-425-548	MPX unit	
T201	1-403-291-13	transformer, discriminator	10.7 MHz
T202	1-403-299	IFT, fm	10.7 MHz
T301	1-405-459	coil, a-m osc	
T401	1-425-260	transformer, switching	
T801	1-441-756	transformer, power (Canada Model)	
	1-441-816	transformer, power (AEP Model)	

CAPACITORS

All capacitance values are in μF except as indicated with p, which means μμF.

C101	1-102-668	15p	±5%	50V	ceramic
C102	1-102-217	0.001	$\pm^{100}_{0}$%	50V	ceramic
C103	1-102-668	15p	±5%	50V	ceramic
C104	1-101-118	0.01	±20%	50V	ceramic
C105	1-101-118	0.01	±20%	50V	ceramic
C106	1-101-936	0.5p	±10%	500V	ceramic
C107	1-102-668	15p	±5%	50V	ceramic
C108	1-101-936	0.5p	±10%	500V	ceramic
C109	1-102-858	10p	±5%	50V	ceramic
C110	1-101-918	0.001	$\pm^{100}_{0}$%	25V	ceramic
C111	1-102-991	20p	±5%	50V	ceramic
C112	1-101-923	0.01	$\pm^{80}_{20}$%	25V	ceramic
C113	1-102-023	2p	±0.25p	50V	ceramic
C114	1-102-848	180p	±5%	50V	ceramic
C115	1-101-923	0.01	$\pm^{80}_{20}$%	25V	ceramic
C116	1-101-923	0.01	$\pm^{80}_{20}$%	25V	ceramic
C117	1-101-923	0.01	$\pm^{80}_{20}$%	25V	ceramic
C118	1-101-923	0.01	$\pm^{80}_{20}$%	25V	ceramic
C119	1-101-924	0.02	$\pm^{80}_{20}$%	25V	ceramic
C120	1-101-918	0.001	$\pm^{100}_{0}$%	25V	ceramic
C121	1-101-924	0.02	$\pm^{80}_{20}$%	25V	ceramic
C122	1-101-924	0.02	$\pm^{80}_{20}$%	25V	ceramic
C124	1-101-978	10p	±5%	50V	ceramic
C125	1-102-022	10p	±0.5p	50V	ceramic
		(AEP Model)			
	1-102-855	15p	±5%	50V	ceramic
		(Canada Model)			

Ref. No.	*Part No.*	*Description*			
C126	1-102-882	4p	±5%	50V	ceramic
		(AEP Model)			
	1-102-011	3p	±0.25p	50V	ceramic
		(Canada Model)			
C128	1-101-924	0.02	$\pm^{80}_{20}$%	25V	ceramic
C129	1-101-923	0.01	$\pm^{80}_{20}$%	25V	ceramic
C130	1-102-875	7p	±0.5p	50V	ceramic
C131	1-101-918	0.001	$\pm^{100}_{0}$%	25V	ceramic
C132	1-101-923	0.01	$\pm^{80}_{20}$%	25V	ceramic
C201	1-102-100	0.022	±20%	50V	ceramic
C202	1-102-100	0.022	±20%	50V	ceramic
C203	1-101-919	0.002	$\pm^{80}_{20}$%	25V	ceramic
C204	1-101-924	0.02	$\pm^{80}_{20}$%	25V	ceramic
C205	1-101-924	0.02	$\pm^{80}_{20}$%	25V	ceramic
C206	1-101-924	0.02	$\pm^{80}_{20}$%	25V	ceramic
C207	1-101-919	0.002	$\pm^{80}_{20}$%	25V	ceramic
C208	1-101-919	0.002	$\pm^{80}_{20}$%	25V	ceramic
C209	1-101-919	0.002	$\pm^{80}_{20}$%	25V	ceramic
C210	1-101-919	0.002	$\pm^{80}_{20}$%	25V	ceramic
C211	1-101-919	0.002	$\pm^{80}_{20}$%	25V	ceramic
C214	1-105-837-12	0.022	±20%	50V	mylar
C215	1-105-689-12	0.22	±10%	50V	mylar
C216	1-102-848	180p	±5%	50V	ceramic
C217	1-102-848	180p	±5%	50V	ceramic
C218	1-102-848	180p	±5%	50V	ceramic
C219	1-121-347	10	$\pm^{100}_{10}$%	16V	electrolytic
C220	1-107-140	240p	±10%	50V	silvered mica
C221	1-121-409	47	$\pm^{100}_{10}$%	16V	electrolytic
C222	1-101-424	500p	±20%	50V	ceramic
C223	1-121-912	1	$\pm^{100}_{10}$%	50V	electrolytic
C224	1-127-022	0.47	±20%	10V	solid, aluminum
C225	1-102-963	33p	±5%	50V	ceramic
C227	1-101-922	0.005	$\pm^{80}_{20}$%	50V	ceramic
C228	1-105-683-12	0.068	±10%	50V	mylar
C229	1-121-391	1	$\pm^{150}_{10}$%	50V	electrolytic
C230	1-121-396	4.7	$\pm^{150}_{10}$%	50V	electrolytic
C231	1-102-960	24p	±5%	50V	ceramic
C232	1-102-960	24p	±5%	50V	ceramic
C233	1-102-960	24p	±5%	50V	ceramic
C234	1-102-960	24p	±5%	50V	ceramic
C235	1-101-924	0.02	$\pm^{80}_{20}$%	25V	ceramic
C236	1-102-960	24p	±5%	50V	ceramic
C237	1-102-960	24p	±5%	50V	ceramic
C238	1-102-973	100p	±5%	50V	ceramic
C239	1-102-960	24p	±5%	50V	ceramic
C240	1-102-977	200p	±5%	50V	ceramic
C249	1-101-924	0.02	$\pm^{80}_{20}$%	25V	ceramic
C250	1-121-347	10	$\pm^{100}_{10}$%	16V	electrolytic
C251	1-121-347	10	$\pm^{100}_{10}$%	16V	electrolytic
C252	1-101-924	0.02	$\pm^{80}_{20}$%	25V	ceramic
C253	1-101-118	0.01	±20%	50V	ceramic
C254	1-121-347	10	$\pm^{100}_{10}$%	16V	electrolytic

Ref. No.	*Part No.*	*Description*			
C255	1-101-118	0.01	±20%	50V	ceramic
C256	1-121-409	47	$\pm^{100}_{10}$%	16V	electrolytic
C257	1-102-973	100p	±5%	50V	ceramic
C258	1-102-973	100p	±5%	50V	ceramic
C259	1-105-661-12	0.001	±10%	50V	mylar
C301	1-103-716	430p	±5%	50V	styrol
C302	1-105-673-12	0.01	±10%	50V	mylar
C303	1-105-677-12	0.022	±10%	50V	mylar
C304	1-102-977	200p	±5%	50V	ceramic
C305	1-102-945	8p	±0.5p	50V	ceramic
C306	1-105-679-12	0.033	±10%	50V	mylar
C307	1-105-677-12	0.022	±10%	50V	mylar
C309	1-105-677-12	0.022	±10%	50V	mylar
C311	1-105-677-12	0.022	±10%	50V	mylar
C312	1-105-673-12	0.01	±10%	50V	mylar
C313	1-105-685-12	0.1	±10%	50V	mylar
C314	1-101-884	56p	±5%	50V	ceramic
C315	1-101-924	0.02	±20%	25V	ceramic
C317	1-121-415	100	$\pm^{100}_{10}$%	16V	electrolytic
C318	1-101-924	0.02	±20%	25V	ceramic
C319	1-101-924	0.02	±20%	25V	ceramic
C320	1-127-019-11	0.1	±20%	10V	solid, aluminum
C321	1-101-924	0.02	±20%	25V	ceramic
C322	1-121-395	4.7	$\pm^{150}_{10}$%	25V	electrolytic
C323	1-101-924	0.02	±20%	25V	ceramic
C324	1-121-415	100	$\pm^{100}_{10}$%	16V	electrolytic
C325	1-121-392	3.3	$\pm^{150}_{10}$%	25V	electrolytic
C326	1-121-392	3.3	$\pm^{150}_{10}$%	25V	electrolytic
C327	1-121-413	100	$\pm^{100}_{10}$%	6.3V	electrolytic
C328	1-105-677-12	0.022	±10%	50V	mylar
C329	1-105-673-12	0.01	±10%	50V	mylar
C330	1-105-677-12	0.022	±10%	50V	mylar
C331	1-102-952	16p	±5%	50V	ceramic
C333	1-102-935	2p	±0.25p	50V	ceramic
C334	1-103-710	240p	±5%	50V	styrol
C401	1-105-683-12	0.068	±10%	50V	mylar
C406	1-105-669-12	0.0047	±10%	50V	mylar
C407	1-121-413	100	$\pm^{100}_{10}$%	6.3V	electrolytic
C408	1-121-392	3.3	$\pm^{150}_{10}$%	25V	electrolytic
C409	1-127-021-11	0.33	±20%	10V	solid, aluminum
C410	1-121-403	33	$\pm^{100}_{10}$%	16V	electrolytic
C411	1-121-409	47	$\pm^{100}_{10}$%	16V	electrolytic
C412	1-121-403	33	$\pm^{100}_{10}$%	16V	electrolytic
C413	1-127-022-11	0.47	±20%	10V	solid, aluminum
C414	1-103-575	4,700p	±5%	50V	styrol
C415	1-106-041-12	0.047	±5%	50V	mylar
C416	1-106-041-12	0.047	±5%	50V	mylar
C417	1-121-391	1	$\pm^{150}_{10}$%	50V	electrolytic
C418	1-121-391	1	$\pm^{150}_{10}$%	50V	electrolytic

Ref. No.	Part No.	Description			
C419	1-121-391	1	$\pm^{150}_{10}\%$	50V	electrolytic
C420	1-121-391	1	$\pm^{150}_{10}\%$	50V	electrolytic
C421	1-105-661-12	0.001	±10%	50V	mylar
C422	1-105-661-12	0.001	±10%	50V	mylar
C423	1-105-675-12	0.015	±10%	50V	mylar
C424	1-121-403	33	$\pm^{100}_{10}\%$	16V	electrolytic
C425	1-101-884	56p	±5%	50V	ceramic
C426	1-101-884	56p	±5%	50V	ceramic
C427	1-121-392	3.3	$\pm^{150}_{10}\%$	25V	electrolytic
C428	1-121-392	3.3	$\pm^{150}_{10}\%$	25V	electrolytic
C429	1-121-420	220	$\pm^{100}_{10}\%$	10V	electrolytic
C430	1-121-420	220	$\pm^{100}_{10}\%$	10V	electrolytic
C431	1-121-395	4.7	$\pm^{150}_{10}\%$	25V	electrolytic
C432	1-121-395	4.7	$\pm^{150}_{10}\%$	25V	electrolytic
C433	1-121-395	4.7	$\pm^{150}_{10}\%$	25V	electrolytic
C434	1-121-395	4.7	$\pm^{150}_{10}\%$	25V	electrolytic
C435	1-105-671-12	0.0068	±10%	50V	mylar
C436	1-121-409	47	$\pm^{100}_{10}\%$	16V	electrolytic
C437	1-121-347	10	$\pm^{100}_{10}\%$	16V	electrolytic
C501	1-121-471	10	$\pm^{100}_{10}\%$	16V	electrolytic
C502	1-121-471	10	$\pm^{100}_{10}\%$	16V	electrolytic
C503	1-105-841-12	0.047	±20%	50V	mylar
C504	1-105-841-12	0.047	±20%	50V	mylar
C505	1-105-841-12	0.047	±20%	50V	mylar
C507	1-105-821-12	0.001	±20%	50V	mylar
C508	1-103-722	750p	±5%	50V	styrol
C509	1-105-821-12	0.001	±20%	50V	mylar
C510	1-105-841-12	0.047	±20%	50V	mylar
C511	1-105-829-12	0.0047	±20%	50V	mylar
C512	1-105-835-12	0.015	±20%	50V	mylar
C513	1-105-821-12	0.001	±20%	50V	mylar
C514	1-105-835-12	0.015	±20%	50V	mylar
C515	1-102-973	100p	±5%	50V	ceramic
C517	1-101-977	200p	±5%	50V	ceramic
C518	1-105-833-12	0.01	±20%	50V	mylar
C519	1-103-717	470p	±5%	50V	styrol
C520	1-121-471	10	$\pm^{100}_{10}\%$	16V	electrolytic
C521	1-105-821-12	0.001	±20%	50V	mylar
C522	1-121-393	3.3	$\pm^{150}_{10}\%$	50V	electrolytic
C523	1-101-924	0.02	$\pm^{80}_{20}\%$	25V	ceramic
C524	1-121-415	100	$\pm^{100}_{10}\%$	16V	electrolytic
C525	1-121-393	3.3	$\pm^{150}_{10}\%$	50V	electrolytic
C526	1-105-845-12	0.1	±20%	50V	mylar
C527	1-121-415	100	$\pm^{100}_{10}\%$	16V	electrolytic
C528	1-121-415	100	$\pm^{100}_{10}\%$	16V	electrolytic
C529	1-103-725	1,000p	±5%	50V	styrol
C530	1-103-734	2,400p	±5%	50V	styrol
C531	1-103-734	2,400p	±5%	50V	styrol
C532	1-103-734	2,400p	±5%	50V	styrol
C533	1-103-734	2,400p	±5%	50V	styrol
C534	1-103-734	2,400p	±5%	50V	styrol
C535	1-103-734	2,400p	±5%	50V	styrol
C536	1-103-734	2,400p	±5%	50V	styrol
C537	1-103-725	1,000p	±5%	50V	styrol
C601	1-121-471	10	$\pm^{100}_{10}\%$	16V	electrolytic
C602	1-121-471	10	$\pm^{100}_{10}\%$	16V	electrolytic
C603	1-121-471	10	$\pm^{100}_{10}\%$	16V	electrolytic
C604	1-121-471	10	$\pm^{100}_{10}\%$	16V	electrolytic
C605	1-121-420	220	$\pm^{100}_{10}\%$	10V	electrolytic
C606	1-121-420	220	$\pm^{100}_{10}\%$	10V	electrolytic
C607	1-121-402	33	$\pm^{100}_{10}\%$	10V	electrolytic
C608	1-121-402	33	$\pm^{100}_{10}\%$	10V	electrolytic
C701	1-121-810	470	$\pm^{100}_{10}\%$	50V	electrolytic
C702	1-121-422	220	$\pm^{100}_{10}\%$	25V	electrolytic
C703	1-121-409	47	$\pm^{100}_{10}\%$	16V	electrolytic
C704	1-121-422	220	$\pm^{100}_{10}\%$	25V	electrolytic
C705	1-105-757-12	0.022	±10%	200V	mylar
C706	1-105-757-12	0.022	±10%	200V	mylar
C801	1-121-420	220	$\pm^{100}_{10}\%$	10V	electrolytic
C802	1-105-677-12	0.022	±10%	50V	mylar
C803	1-105-677-12	0.022	±10%	50V	mylar
C804	1-102-977	200p	±5%	50V	ceramic
CT301	1-141-095	capacitor, trimmer			
CT302	1-141-095	capacitor, trimmer			

RESISTORS

All resistance values are in Ω, ±5%, ¼W and carbon type, unless otherwise indicated.

R101	1-244-709	33k
R102	1-244-713	47k
R103	1-244-657	220
R104	1-242-697	10k
R105	1-242-721	100k
R106	1-242-633	22
R107	1-244-665	470
R108	1-242-697	10k
R109	1-242-691	5.6k
R110	1-242-653	150
R111	1-244-633	22
R112	1-242-661	330
R113	1-242-661	330
R114	1-242-671	820
R115	1-244-633	22
R116	1-242-677	1.5k
R117	1-242-721	100k
R118	1-242-721	100k
R119	1-244-729	220k
R120	1-242-689	4.7k
R121	1-244-643	56
R122	1-242-677	1.5k
R123	1-242-677	1.5k
R124	1-242-677	1.5k

Ref. No.	*Part No.*	*Description*
R125	1-242-691	5.6 k
R126	1-242-697	10 k
R127	1-244-657	220
R201	1-242-664 1-242-657	430 220 (AEP Model only) (Serial No. up to 901,900)
R202	1-242-671	820
R203	1-244-677	1.5 k
R204	1-244-685	3.3 k
R205	1-242-653	150
R206	1-244-673	1 k
R207	1-244-673	1 k
R208	1-242-671	820
R209	1-244-677	1.5 k
R210	1-244-685	3.3 k
R211	1-242-653	150
R212	1-244-673	1 k
R213	1-244-673	1 k
R214	1-242-649	100
R215	1-242-657	220
R216	1-242-671	820
R217	1-242-689	4.7 k
R218	1-242-675	1.2 k
R219	1-242-653	150
R220	1-242-663	390
R221	1-244-677	1.5 k
R222	1-242-679	1.8 k
R223	1-242-671	820
R224	1-244-673	1 k
R225	1-242-649	100
R226	1-242-659	270
R227	1-242-671	820
R228	1-242-653	150
R229	1-244-705	22 k
R230	1-242-695	8.2 k
R231	1-242-673	1 k
R232	1-242-649	100
R233	1-242-649	100
R234	1-244-709	33 k
R235	1-242-697	10 k
R236	1-242-673	1 k
R237	1-244-673	1 k
R238	1-244-673	1 k
R239	1-244-649	100
R240	1-242-743	820 k
R241	1-242-719	82 k
R242	1-242-691	5.6 k
R243	1-242-677 1-242-680	1.5 k 2 k (AEP Model only) (Serial No. up to 901,900)
R244	1-242-691	5.6 k
R245	1-244-673	1 k
R246	1-242-673	1 k
R247	1-242-699	12 k
R248	1-244-745	1 M
R249	1-244-735	390 k
R250	1-242-745	1 M
R251	1-242-723	120 k
R252	1-242-710	39 k
R253	1-242-721	100 k
R254	1-242-657	220
R255	1-244-679	1.8 k
R256	1-242-705	22 k
R257	1-242-703	18 k
R258	1-242-689	4.7 k
R259	1-242-632	20
R260	1-242-701	15 k
R261	1-242-699	12 k
R262	1-242-632	20
R263	1-242-699	12 k
R264	1-244-701	15 k
R265	1-242-720	91 k
R266	1-244-733	330 k
R267	1-242-699	12 k
R268	1-242-713	47 k
R269	1-242-713	47 k
R270	1-242-699	12 k
R271	1-242-689	4.7 k
R272	1-242-713	47 k
R273	1-244-642	51
R274	1-244-642	51
R275	1-242-642	51
R276	1-242-649	100
R277	1-242-664	430
R301	1-244-691	5.6 k
R302	1-244-704	20 k
R303	1-244-708	30 k
R304	1-244-634	24
R305	1-244-647	82
R306	1-244-708	30 k
R307	1-244-670	750
R308	1-244-691	5.6 k
R309	1-244-649	100
R310	1-244-719	82 k
R311	1-244-691	5.6 k
R312	1-244-673	1 k
R313	1-244-684	3 k
R314	1-244-689	4.7 k
R315	1-244-645	68
R316	1-244-657	220
R317	1-244-689	4.7 k
R318	1-244-645	68
R319	1-202-565	470 ±10% ½W composition
R320	1-244-673	1 k
R321	1-244-673	1 k
R322	1-244-680	2 k
R323	1-242-657	220
R324	1-242-701	15 k
R325	1-244-691	5.6 k
R326	1-244-689	4.7 k
R327	1-244-645	68

Ref. No.	*Part No.*		*Description*
R328	1-244-673	1 k	
R329	1-244-701	15 k	
R330	1-244-680	2 k	
R331	1-244-671	820	
R332	1-244-657	220	
R333	1-244-717	68 k	
R334	1-244-670	750	
R401	1-244-737	470 k	
R403	1-244-673	1 k	
R404	1-242-673	1 k	
R406	1-244-706	24 k	
R407	1-242-711	39 k	
R408	1-244-689	4.7 k	
R409	1-244-709	33 k	
R410	1-244-643	56	
R411	1-242-731	270 k	
R412	1-244-689	4.7 k	
R413	1-244-682	2.4 k	
R414	1-244-689	4.7 k	
R415	1-202-560	300	±10% ½W composition
R416	1-244-690	5.1 k	
R417	1-242-671	820	
R418	1-244-649	100	
R419	1-242-643	56	
R420	1-244-673	1 k	
R421	1-242-670	750	
R422	1-242-670	750	
R423	1-242-670	750	
R424	1-242-671	820	
R425	1-242-679	1.8 k	
R426	1-242-679	1.8 k	
R427	1-242-721	100 k	
R428	1-242-721	100 k	
R429	1-242-693	6.8 k	
R430	1-242-693	6.8 k	
R431	1-242-721	100 k	
R432	1-242-721	100 k	
R433	1-242-671	820	
R434	1-242-671	820	
R435	1-242-715	56 k	
R436	1-242-715	56 k	
R437	1-242-709	33 k	
R438	1-242-709	33 k	
R439	1-242-664	430	
R440	1-242-664	430	
R441	1-242-705	22 k	
R442	1-242-705	22 k	
R443	1-242-683	2.7 k	
R444	1-242-683	2.7 k	
R445	1-242-657	220	
R446	1-242-657	220	
R447	1-242-677	1.5 k	
R448	1-242-677	1.5 k	

Ref. No.	*Part No.*		*Description*
R449	1-242-685	3.3 k	
R450	1-242-685	3.3 k	
R451	1-242-709	33 k	
R452	1-242-709	33 k	
R453	1-242-721	100 k	
R454	1-242-721	100 k	
R455	1-242-685	3.3 k	
R456	1-242-685	3.3 k	
R457	1-242-665	470	
R458	1-242-665	470	
R459	1-242-707	27 k	
R460	1-242-707	27 k	
R461	1-242-702	16 k	
R462	1-242-702	16 k	
R463	1-242-673	1 k	
R464	1-242-673	1 k	
R465	1-242-701	15 k	
R466	1-242-667	560	
※ R467	1-244-704	20 k	
	1-244-708	30 k	
	1-244-713	47 k	
	1-244-717	68 k	
	1-244-715	82 k	※ should be selected
R468	1-242-721	100 k	
R501	1-242-707	27 k	
R502	1-242-707	27 k	
R503	1-244-680	2 k	
R504	1-242-697	10 k	
R505	1-242-715	56 k	
R506	1-242-661	330	
R507	1-242-685	3.3 k	
R508	1-244-697	10 k	
R509	1-244-721	100 k	
R510	1-244-697	10 k	
R511	1-244-713	47 k	
R512	1-244-731	270 k	
R513	1-244-728	200 k	
R514	1-242-721	100 k	
R515	1-244-729	220 k	
R516	1-242-729	220 k	
R517	1-242-721	100 k	
R518	1-244-729	220 k	
R519	1-242-731	270 k	
R520	1-242-737	470 k	
R521	1-244-673	1 k	
R522	1-242-661	330	
R523	1-244-673	1 k	
R524	1-242-701	15 k	
R525	1-242-709	33 k	
R526	1-242-717	68 k	
R527	1-242-661	330	

Ref. No.	Part No.	Description
R528	1-242-681	2.2 k
R529	1-242-729	220 k
R530	1-242-701	15 k
R531	1-244-657	220
R532	1-244-888	4.3 k
R533	1-244-680	2 k
R534	1-242-680	2 k
R535	1-242-680	2 k
R536	1-242-707	27 k
R537	1-242-707	27 k
R538	1-242-707	27 k
R539	1-242-656	200
R540	1-242-680	2 k
R541	1-242-715	56 k
R542	1-242-680	2 k
R543	1-244-707	27 k
R544	1-242-707	27 k
R545	1-242-687	3.9 k
R546	1-242-680	2 k
R547	1-242-737	470 k
R548	1-242-649	100
R549	1-242-737	470 k
R550	1-242-661	330
R551	1-242-673	1 k
R552	1-244-673	1 k
R553	1-242-659	270
R601	1-244-701	15 k
R602	1-244-701	15 k
R603	1-242-697	10 k
R604	1-242-697	10 k
R605	1-242-714	51 k
R606	1-242-714	51 k
R607	1-242-689	4.7 k
R608	1-242-689	4.7 k
R609	1-242-661	330
R610	1-242-661	330
R611	1-242-657	220
R612	1-242-657	220
R613	1-242-649	100
R614	1-242-649	100
R615	1-242-629	15
R616	1-242-629	15
R617	1-242-629	15
R618	1-242-629	15
R619	1-242-645	68
R620	1-242-645	68
R621	1-242-721	100 k
R622	1-242-721	100 k
R701	1-207-723	3.9 ±10% 2W wire-wound
R702	1-244-699	12 k
R703	1-244-699	12 k
R704	1-242-693	6.8 k

Ref. No.	Part No.	Description
R705	1-244-692 1-244-693 1-244-694 1-244-695 1-244-696 1-244-697	6.2 k 6.8 k 7.5 k 8.2 k 9.1 k 10 k
R706	1-244-673	1 k
		should be selected
R801	1-244-646	75
R802	1-244-646	75
R803	1-202-645	1 M ±10% ½W composition (Canada Model only)
R804	1-244-723	120 k
R805	1-244-703	18 k
RT201	1-221-981	10 k (B) semi-fixed
RT202	1-222-966	100 k (B) semi-fixed
RT301	1-222-951	10 k (B) semi-fixed
RT401	1-222-948	3.3 k (B) semi-fixed
RT501	1-222-984	33 k (B) semi-fixed
RV601	1-222-588	50 k (B) variable (HEADPHONE LEVEL control)
RV602	1-222-588	50 k (B) variable (HEADPHONE LEVEL control)
RV801	1-222-282	10 k (B) variable (OUTPUT LEVEL control)
RV802	1-222-282	10 k (B) variable (OUTPUT LEVEL control)

SWITCHES

Ref. No.	Part No.	Description
S1	1-514-889	switch, rotary (FUNCTION)
S2	1-514-888	switch, rotary/lever (INS)
S3	1-514-888	switch, rotary/lever (HI-BLEND)
S4	1-514-888	switch, rotary/lever (MUTING)
S5	1-514-888	switch, rotary/lever (AFC)
S6	1-514-887-21 1-514-942-11	switch, lever (POWER) (Canada Model) switch, lever (POWER) (AEP Model)
S7	1-514-524	switch, slide (DE-EMPHASIS)

FILTERS

Ref. No.	Part No.	Description
CF201 CF202 CF203 CF204 CF205 CF206 CF207 CF208	1-403-562-11 1-403-562-21 1-403-562-31 1-403-562-41 1-403-562-51	fm i-f, ceramic 10.70 MHz (red) fm i-f, ceramic 10.66 MHz (black) fm i-f, ceramic 10.74 MHz (white) fm i-f, ceramic 10.62 MHz (green) fm i-f, ceramic 10.78 MHz (yellow)
LPF401	1-231-088	filter, low-pass

MISCELLANEOUS

Ref. No.	Part No.	Description
CP801	1-231-057-12	encapsulated component, 120Ω + 0.033μF
J801	1-508-170	plug, COAXIAL cable
J802	1-507-190	jack, HEADPHONE
J803 J804 J805 J806	1-507-163	phono jack, 4-P
J807 J808	1-507-142	phono jack, 2-P
P1	1-509-445	AC input connector, 3-P (AEP Model only)
	1-517-021	socket, pilot lamp
PL1	1-518-011-04	lamp, meter 8V/150 mA
PL2	1-518-051-71	lamp, 4.5V/40 mA (FM indicating)
PL3	1-518-051-22	lamp, 4.5V/40 mA (AM indicating)
PL4	1-518-011-04	lamp, meter 8V/150 mA
PL5	1-518-070	lamp, dial 8V/300 mA
PL6	1-518-070	lamp, dial 8V/300 mA
PL7	1-518-051-61	lamp, stereo 4.5V/40 mA
M801	1-520-111	meter, TUNING
M802	1-520-112	meter, TUNER INPUT
V.S.	1-526-165	voltage changeover block (AEP Model only)
F801	1-532-275 1-532-305	fuse, 160 mAT (AEP Model) fuse, 0.4A (Canada Model)
F802	1-532-204	fuse, 2 AT (AEP Model only)
F803	1-532-235	fuse, 300 mAT (AEP Model only)
F804	1-532-235	fuse, 300 mAT (AEP Model only)
	1-533-051	socket, dial lamp
	1-533-069	socket, fuse; 4-P (AEP Model only)
	1-534-526	cord, power (Canada Model only)
	1-536-179	terminal strip, 1L1
	1-536-183	terminal strip, 2L3
TM801	1-536-286	terminal strip, 4-P

SONY CORPORATION

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SONY®

Complete Spare Parts List

Model ST-5130

GEP MODEL
NEP MODEL
U. S. A. MODEL

"IMPORTANT"

When ordering parts, please do not fail to furnish us the following:

1. Part Number
2. Model Name
3. Description as mentioned in this parts list

We are now using EDPS (Electronic Data Processing System) in all the departments concerned, for procurement, inventory control, packing, warehousing, etc. Your orders are processed mainly from the PART NUMBERS referred by you. Incorrect part numbers, therefore, will result in incorrect parts shipment. To assure prompt shipment of correct parts, your cooperation will be appreciated.

NOTE:

Prices are subject to change without notice.

SONY CORPORATION

COMPLETE SPARE PARTS LIST FOR ST-5130

(USA, GEP and NEP Model)

NOVEMBER, 1971

I. MECHANICAL PARTS

Part No.	Description	Unit Price
X-20437-13	Holder Ass'y, bar antenna	$0.06
X-20437-54	Flywheel Ass'y	0.26
X-20472-09	Knob Ass'y, AFC: MUTING: HI-BLEND: INE: POWER switch	0.13
X-34340-34	Clamp Ass'y, lead wire	0.04
X-48066-11	Knob Ass'y, FUNCTION switch	0.28
X-48090-02	Dial Pointer Ass'y	0.18
X-48090-03	Bracket Ass'y, pulley support	0.19
X-48090-04	Guide Ass'y, dial pointer	0.67
X-48090-05	Subchassis Ass'y, front	1.98
X-48090-60	Reflector, dial lamp	0.25
X-48090-07	Illuminator Ass'y, stereo lamp	0.12
X-48090-11	Knob Ass'y, TUNING	0.38
0-051-263	Foot, rubber	0.03
2-043-776	Bracket, front panel	0.03
2-047-106	Light Shield, lever switch (POWER: INS: HI-BLEND: MUTING AFC)	0.01
2-047-151	Band, a-m bar antenna support	0.01
2-051-919	Escutcheon, HEADPHONE jack	0.03
2-056-647	Light Shield, dial lamp	0.01
2-056-655	Label, de-emphasis time constant indicating	0.01
2-057-730	Pulley, dial cord	0.01
2-062-466	Label, caution (C) (USA model only)	0.02
2-066-107	Screw, top cover securing	0.07
2-068-309	Caution Label, fuse (USA model only)	0.02
2-068-548	Nut-plate, bar antenna	0.02
3-409-124	Washer, nylon	0.01
3-410-032	Strain Relief, power cord (USA model only)	0.02
3-418-709	Label, ground terminal (GEP, NEP model only)	0.01
3-422-204	Label, caution (B) (USA model only)	0.03
3-442-022	Grommet, stereo lamp	0.02
3-601-345	Lug, check	0.01
3-701-030	Label, serial number	0.01
3-701-238	Label, FCC (USA model only)	0.02
3-811-140	Pulley, dial cord	0.01
3-820-225	Washer, nylon	0.01

Part No.	Description	Unit Price
3-827-021	Clamp, lead wire	$0.02
4-303-479	Clamp, lead wire	0.01
4-801-216	Heat Sink	0.07
4-802-413	Bracket, fuse holder (NEP model only)	0.08
4-803-038	Cover, front end ass'y	0.25
4-803-054	Screw (A), voltage changeover block cover securing (GEP, NEP model only)	0.02
4-803-055	Screw (B), voltage changeover block cover securing (GEP, NEP model only)	0.01
4-803-056	Cover, voltage changeover block (GEP, NEP model only)	0.09
4-804-142	Shade, stereo lamp	0.02
4-804-160	Screw, self-tapping	0.01
4-804-161	Label, fuse soldered in place (USA model only)	0.01
4-809-031	Panel, front	4.19
4-809-032	Panel, rear (USA model only)	0.81
4-809-033	Top Cover	2.76
4-809-034	Shade, meter lamp	0.07
4-809-035	Grommet, FM/A-M indicating lamp	0.02
4-809-036	Cushion, dial scale	0.04
4-809-037	Bracket, INS board support	0.09
4-809-038	Bracket (A), dial glass escutcheon	0.08
4-809-039	Bracket (B), dial glass escutcheon	0.08
4-809-040	Bracket, dial lamp	0.03
4-809-041	Bracket, dial lamp	0.03
4-809-042	Holder, dial scale	0.03
4-809-044	Glass, front	0.31
4-809-045	Shaft, tuning	0.11
4-809-046	Bracket, flywheel support	0.17
4-809-047	Holder, front glass	0.06
4-809-048	Bracket, OUTPUT LEVEL control	0.03
4-809-049	Drive-drum, tuning capacitor	0.06
4-809-050	Coil Spring, tuning capacitor drive drum	0.04
4-809-051	Plate, bottom	1.03
4-809-052	Escutcheon, front glass	3.61
4-809-053	Bracket, fm front end ass'y support	0.08
4-809-054	Holder, dial glass	0.05
4-809-055	Cushion, front glass	0.02
4-809-057	Chassis	1.28
4-809-058	Shade, dial lamp	0.02
4-809-059	Instruction Sheet, dial-cord restringing	0.02
4-809-060	Reflector, dial lamp	0.02
4-809-061	Cushion, top cover	0.02

Part No.	Description	Unit Price
4-809-062	Special Washer, power transformer mounting	$0.02
4-809-071	Dial Scale	0.59
4-809-072	Label, specification (USA model only)	0.04
4-809-081	Panel, rear	0.04
4-809-082	Label, specification (GEP model)	0.04
4-809-091	Label, specification (NEP model)	0.04
4-809-092	Label, fuse capacity indicating (NEP model only)	0.04
4-809-093	Socket, fuse 4-P (NEP model only)	0.04
4-810-415	Bracket, voltage changeover block (GEP, NEP model only)	0.05

Hardware

7-621-259-23	Screw, (+) P 2.6 x 4	0.17/100
7-623-108-18	Washer, 3 mm dia.	0.45/100
7-623-110-12	Washer, 4 mm dia.	0.21/100
7-623-207-12	Washer, spring 2.6 mm dia.	0.06/100
7-623-208-27	Washer, spring 3 mm dia.	0.07/100
7-623-408-02	Lock Washer, external tooth 3 mm dia.	0.24/100
7-623-508-01	Lug, 3 mm dia.	0.12/100
7-623-616-00	Eyelet, 2 x 3	0.07/100
7-624-109-01	Retaining Ring, 5 mm dia.	0.56/100
7-682-147-01	Screw, (+) P 3 x 6	0.08/100
7-682-148-01	Screw, (+) P 3 x 8	0.10/100
7-682-547-01	Screw, (+) B 3 x 6	0.12/100
7-682-548-13	Screw, (+) B 3 x 8	0.31/100
7-682-549-01	Screw, (+) B 3 x 10	0.12/100
7-682-563-01	Screw, (+) B 4 x 12	0.18/100
7-682-646-01	Screw, (+) PS 3 x 5	0.28/100
7-682-647-01	Screw, (+) PS 3 x 6	0.22/100
7-682-649-03	Screw, (+) PS 3 x 10	0.31/100
7-682-659-01	Screw, (+) PS 4 x 5	0.29/100
7-682-661-01	Screw, (+) PS 4 x 8	0.31/100
7-682-947-01	Screw, (+) PSW 3 x 6	0.61/100
7-682-948-01	Screw, (+) PSW 3 x 8	0.50/100
7-682-962-01	Screw, (+) PSW 4 x 10	0.67/100
7-684-013-01	Nut, 3 mm dia.	0.24/100
7-684-024-00	Nut, 4 mm dia.	0.38/100
7-685-545-21	Screw, self-tapping (+) B 3 x 6	0.27/100
7-685-545-23	Screw, self-tapping (+) B 3 x 6	0.27/100
7-685-547-21	Screw, self-tapping (+) B 3 x 10	0.28/100

Ref. No.	Part No.	Description	Unit Price
		II. ELECTRICAL PARTS	
		Mounted Circuit Boards	
	8-982-604-22	Fm Front-end Ass'y (USA model)	$15.95
	8-982-604-23	Fm Front-end Ass'y (AEP model)	15.95
	8-982-604-24	Fm I-f Amplifier Circuit Board	13.00
	8-982-604-30	A-m Conv./I-f Amplifier Circuit Board	4.76
	8-982-604-50	MPX Circuit Board	11.45
	8-982-604-93	INS Circuit Board	10.99
	8-982-604-45	Power Supply Circuit Board	2.78
	8-982-604-06	Headphone Amplifier Circuit Board	3.06
		Semiconductors	
D101		Diode, 1T243M	0.13
D102		Diode, 1S351M	0.12
D201		Diode, 1S1555	0.07
D202		Diode, 1S1555	0.07
D203		Diode, 1S1555	0.07
D204		Diode, 1S1555	0.07
D205		Diode, 1S1555	0.07
D206		Diode, 1S1555	0.07
D207		Diode, 1T22A	0.05
D208		Diode, 1T22A	0.05
D209		Diode, 1T22A	0.05
D210		Diode, 1T22A	0.05
D211		Diode, 1S1555	0.07
D212		Diode, 1T22A	0.05
D213		Diode, 1T22A	0.05
D214		Diode, 1T22A	0.05
D215		Diode, 1T22A	0.05
D216		Diode, 1T22A	0.05
D217		Diode, 1S1555	0.07
D218		Diode, 1S1555	0.07
D219		Diode, 1S1555	0.07
D301		Diode, 1T22A	0.05
D302		Diode, 1T22A	0.05
D401		Diode, 1S1555	0.07
D402		Diode, 1S1555	0.07

Ref. No.	Part No.	Description	Unit Price
D403		Diode, 1S1555	$0.07
D404		Diode, 1S1555	0.07
D405		Diode, 1T22A	0.05
D406		Diode, 1T22A	0.05
D407		Diode, 1T22A	0.05
D408		Diode, 1T22A	0.05
D409		Diode, 1S1555	0.07
D501		Diode, 1S1555	0.07
D502		Diode, 1S1555	0.07
D503		Diode, 1S1555	0.07
D504		Diode, 1S1555	0.07
D505		Diode, 1S1555	0.07
D506		Diode, 1S1555	0.07
D507		Diode, 1T22A	0.05
D701		Diode, 10D-2	0.11
D702		Diode, 10D-2	0.11
D703		Diode, 1T244	0.13
Q101		FET, 3SK37	1.04
Q102		FET, 3SK37	1.04
Q103		Transistor, 2SC710	0.12
Q104		Transistor, 2SC710	0.12
Q105		Transistor, 2SA677	0.15
Q106		Transistor, 2SA677	0.15
Q201		Transistor, 2SC403A	0.14
Q202		Transistor, 2SC710	0.12
Q203		Transistor, 2SC403A	0.14
Q204		Transistor, 2SC403A	0.14
Q205		Transistor, 2SC403A	0.14
Q206		Transistor, 2SC403A	0.14
Q207		FET, 2SK23	0.42
Q208		FET, 2SK23	0.42
Q209		Transistor, 2SC633A	0.14
Q210		Transistor, 2SC633A	0.14
Q301		Transistor, 2SC1129	0.21
Q302		Transistor, 2SC403A	0.14
Q303		Transistor, 2SC403A	0.14
Q304		Transistor, 2SC403A	0.14
Q305		Transistor, 2SC403A	0.14

Ref. No.	Part No.	Description		Unit Price
Q401		FET,	2SK23	$0.42
Q402		Transistor,	2SC633A	0.14
Q403		Transistor,	2SC710	0.12
Q404		Transistor,	2SC634A	0.14
Q405		FET,	2SK23	0.42
Q406		FET,	2SK23	0.42
Q407		FET,	2SK23	0.42
Q408		Transistor,	2SC631A	0.17
Q409		Transistor,	2SC633A	0.14
Q410		Transistor,	2SC633A	0.14
Q411		Transistor,	2SC633A	0.14
Q412		Transistor,	2SC633A	0.14
Q501		Transistor,	2SC633A	0.14
Q502		Transistor,	2SC633A	0.14
Q503		Transistor,	2SC633A	0.14
Q504		Transistor,	2SC633A	0.14
Q505		Transistor,	2SA677	0.15
Q506		FET,	2SK23	0.42
Q507		Transistor,	2SC633A	0.14
Q508		Transistor,	2SC633A	0.14
Q509		Transistor,	2SC633A	0.14
Q510		Transistor,	2SC633A	0.14
Q511		Transistor,	2SC633A	0.14
Q512		Transistor,	2SC633A	0.14
Q513		Transistor,	2SC633A	0.14
Q514		FET,	2SK23	0.42
Q515		Transistor,	2SA677	0.15
Q601		Transistor,	2SC631A	0.17
Q602		Transistor,	2SC631A	0.17
Q603		Transistor,	2SC633A	0.14
Q604		Transistor,	2SC633A	0.14
Q605		Transistor,	2SA677	0.15
Q606		Transistor,	2SA677	0.15
Q701		Transistor,	2SD291	0.38
Q702		Transistor,	2SC634A	0.14
Q703		Transistor,	2SC634A	0.14

Ref. No.	Part No.	Description	Unit Price
		Transformers, Coils and Inductors	
B1	1-417-014	Balun	$0.06
CFT301	1-403-150	CFT	0.18
IFT101	1-403-295	IFT, fm	0.12
IFT301	1-403-149	IFT, a-m	0.10
L101	1-401-483	Coil, fm antenna	0.13
L102	1-425-712	Coil, fm (RF1)	0.13
L103	1-425-676	Coil, fm (RF2)	0.13
L104	1-425-713	Coil, fm (RF3)	0.13
L105	1-405-505	Coil, fm osc.	0.14
L106	1-407-177	Inductor, micro 470 µH	0.03
L201	1-407-169	Inductor, micro 100 µH	0.03
L202	1-407-169	Inductor, micro 100 µH	0.03
L203	1-407-184	Inductor, micro 3.3 µH	0.05
L204	1-407-169	Inductor, micro 100 µH	0.03
L205	1-407-408	Inductor, micro 22 mH	0.07
L206	1-407-163	Inductor, micro 33 µH	0.03
L207	1-407-169	Inductor, micro 100 µH	0.03
L208	1-407-169	Inductor, micro 100 µH	0.03
L209	1-407-169	Inductor, micro 100 µH	0.03
L301	1-407-169	Inductor, micro 100 µH	0.03
L501	1-407-197	Inductor, micro 1.8 mH	0.05
L502	1-407-213	Inductor, micro 1.5 mH	0.06
L503	1-415-044	Delay Coil (B)	1.46
L504	1-415-044	Delay Coil (B)	1.46
L505	1-415-044	Delay Coil (B)	1.46
L506	1-415-044	Delay Coil (B)	1.46
L507	1-415-044	Delay Coil (B)	1.46
L508	1-415-044	Delay Coil (B)	1.46
L509	1-415-044	Delay Coil (B)	1.46
L510	1-415-043	Delay Coil (A)	0.22
L801	1-401-439	Bar Antenna, a-m	0.53
L802	1-407-182	Inductor, micro 2.2 µH	0.05
L803	1-407-182	Inductor, micro 2.2 µH	0.05
MU401	1-425-548	MPX Unit	0.67
T201	1-403-291-13	Transformer, discriminator 10.7 MHz	0.26
T202	1-403-299	IFT, fm 10.7 MHz	0.13
T301	1-405-459	Coil, a-m osc.	0.10
T401	1-425-260	Transformer, switching	0.33
T801	(1-441-756	Transformer, power (USA model)	2.50
	1-441-816	Transformer, power (GEP, NEP model)	2.67

Ref. No.	Part No.	Description			Unit Price
		Capacitors			
		All capacitance values are in µF except as indicated with P, which means µµF.			
C101	1-102-668	15 P	±5 %	50 V, ceramic	$0.03
C102	1-102-217	0.001	+100 -0 %	50 V, ceramic	0.04
C103	1-102-668	15 P	±5 %	50 V, ceramic	0.03
C104	1-101-118	0.01	±20 %	50 V, ceramic	0.02
C105	1-101-118	0.01	±20 %	50 V, ceramic	0.02
C106	1-101-936	0.5 P	±10 %	500 V, ceramic	0.03
C107	1-102-668	15 P	±5 %	50 V, ceramic	0.03
C108	1-101-936	0.5 P	±10 %	500 V, ceramic	0.03
C109	1-102-858	10 P	±5 %	50 V, ceramic	0.02
C110	1-101-918	0.001	+100 -0 %	25 V, ceramic	0.02
C111	1-102-991	20 P	±5 %	50 V, ceramic	0.03
C112	1-101-923	0.01	+80 -20 %	25 V, ceramic	0.02
C113	1-102-023	2 P	±0.25 P	50 V, ceramic	0.01
C114	1-102-848	180 P	±5 %	50 V, ceramic	0.03
C115	1-101-923	0.01	+80 -20 %	25 V, ceramic	0.02
C116	1-101-923	0.01	+80 -20 %	25 V, ceramic	0.02
C117	1-101-923	0.01	+80 -20 %	25 V, ceramic	0.02
C118	1-101-923	0.01	+80 -20 %	25 V, ceramic	0.02
C119	1-101-924	0.02	+80 -20 %	25 V, ceramic	0.02
C120	1-101-918	0.001	+100 -0 %	25 V, ceramic	0.02
C121	1-101-924	0.02	+80 -20 %	25 V, ceramic	0.02
C122	1-101-924	0.02	+80 -20 %	25 V, ceramic	0.02
C124	1-101-978	10 P	±5 %	50 V, ceramic	0.02
C125	1-102-022	10 P	±0.5 P	50 V, ceramic (GEP, NEP model only)	0.03
	1-102-855	15 P	±5 %	50 V, ceramic (USA model only)	0.03
C126	1-102-882	4 P	±5 %	50 V, ceramic (GEP, NEP model only)	0.02
	1-102-011	3 P	±0.25 P	50 V, ceramic (USA model only)	0.03
C128	1-101-924	0.02	+80 -20 %	25 V, ceramic	0.02
C129	1-101-923	0.01	+80 -20 %	25 V, ceramic	0.02
C130	1-102-875	7 P	±0.5 P	50 V, ceramic	0.03
C131	1-101-918	0.001	+100 -0 %	25 V, ceramic	0.02
C132	1-101-923	0.01	+80 -20 %	25 V, ceramic	0.02

Ref. No.	Part No.	Description				Unit Price
C201	1-102-100	0.022	±20 %	50 V,	ceramic	$0.02
C202	1-102-100	0.022	±20 %	50 V,	ceramic	0.02
C203	1-101-919	0.002	+80 -20 %	25 V,	ceramic	0.02
C204	1-101-924	0.02	+80 -20 %	25 V,	ceramic	0.02
C205	1-101-924	0.02	+80 -20 %	25 V,	ceramic	0.02
C206	1-101-924	0.02	+80 -20 %	25 V,	ceramic	0.02
C207	1-101-919	0.002	+80 -20 %	25 V,	ceramic	0.02
C208	1-101-919	0.002	+80 -20 %	25 V,	ceramic	0.02
C209	1-101-919	0.002	+80 -20 %	25 V,	ceramic	0.02
C210	1-101-919	0.002	+80 -20 %	25 V,	ceramic	0.02
C211	1-101-919	0.002	+80 -20 %	25 V,	ceramic	0.02
C214	1-105-837-12	0.022	±20 %	50 V,	mylar	0.02
C215	1-105-689-12	0.22	±10 %	50 V,	mylar	0.09
C216	1-102-848	180 P	±5 %	50 V,	ceramic	0.02
C217	1-102-848	180 P	±5 %	50 V,	ceramic	0.02
C218	1-102-848	180 P	±5 %	50 V,	ceramic	0.02
C219	1-121-471	10	+100 -10 %	16 V,	electrolytic	0.04
C220	1-107-140	240 P	±10 %	50 V,	silvered mica	0.02
C221	1-121-409	47	+100 -10 %	16 V,	electrolytic	0.04
C222	1-101-424	500 P	±20 %	50 V,	ceramic	0.02
C223	1-121-912	1	+100 -10 %	50 V,	electrolytic	0.04
C224	1-127-022	0.47	±20 %	10 V,	solid, aluminum	0.06
C225	1-102-963	33 P	±5 %	50 V,	ceramic	0.02
C227	1-101-922	0.005	+80 -20 %	50 V,	ceramic	0.02
C228	1-105-683-12	0.068	±10 %	50 V,	mylar	0.04
C229	1-121-391	1	+150 -10 %	50 V,	electrolytic	0.03
C230	1-121-396	4.7	+150 -10 %	50 V,	electrolytic	0.04
C231	1-102-960	24 P	±5 %	50 V,	ceramic	0.02
C232	1-102-960	24 P	±5 %	50 V,	ceramic	0.02
C233	1-102-960	24 P	±5 %	50 V,	ceramic	0.02
C234	1-102-960	24 P	±5 %	50 V,	ceramic	0.02
C235	1-101-924	0.02	+80 -20 %	25 V,	ceramic	0.02
C236	1-102-960	24 P	±5 %	50 V,	ceramic	0.02
C237	1-102-960	24 P	±5 %	50 V,	ceramic	0.02
C238	1-102-973	100 P	±5 %	50 V,	ceramic	0.02
C239	1-102-960	24 P	±5 %	50 V,	ceramic	0.02
C240	1-102-977	200 P	±5 %	50 V,	ceramic	0.02
C249	1-101-924	0.02	+80 -20 %	25 V,	ceramic	0.02
C250	1-121-471	10	+100 -10 %	16 V,	electrolytic	0.04
C251	1-121-471	10	+100 -10 %	16 V,	electrolytic	0.04
C252	1-101-924	0.02	+80 -20 %	25 V,	ceramic	0.02
C253	1-101-118	0.01	±20 %	50 V,	ceramic	0.02
C254	1-121-471	10	+100 -10 %	16 V,	electrolytic	0.04

Ref. No.	Part No.	Description			Unit Price
C255	1-101-118	0.01	±20 %	50 V, ceramic ---------	$0.02
C256	1-121-409	47	+100 -10 %	16 V, electrolytic ----	0.04
C257	1-102-973	100 P	±5 %	50 V, ceramic ---------	0.02
C258	1-102-973	100 P	±5 %	50 V, ceramic ---------	0.02
C259	1-105-661-12	0.001	±10 %	50 V, mylar -----------	0.02
C260	1-101-924	0.02	+80 -20 %	25 V, ceramic ---------	0.02
C301	1-103-715	390 P	±5 %	50 V, styrol ----------	0.03
C302	1-105-673-12	0.01	±10 %	50 V, mylar -----------	0.02
C303	1-105-677-12	0.022	±10 %	50 V, mylar -----------	0.02
C304	1-102-977	200 P	±5 %	50 V, ceramic ---------	0.03
C305	1-102-945	8 P	±0.5 P	50 V, ceramic ---------	0.02
C306	1-105-679-12	0.033	±10 %	50 V, mylar -----------	0.03
C307	1-105-677-12	0.022	±10 %	50 V, mylar -----------	0.02
C309	1-105-677-12	0.022	±10 %	50 V, mylar -----------	0.02
C311	1-105-677-12	0.022	±10 %	50 V, mylar -----------	0.02
C312	1-105-673-12	0.01	±10 %	50 V, mylar -----------	0.02
C313	1-105-685-12	0.1	±10 %	50 V, mylar -----------	0.05
C314	1-101-884	56 P	±5 %	50 V, ceramic ---------	0.02
C315	1-101-924	0.02	±20 %	25 V, ceramic ---------	0.02
C317	1-121-415	100	+100 -10 %	16 V, electrolytic ----	0.06
C318	1-101-924	0.02	±20 %	25 V, ceramic ---------	0.02
C319	1-101-924	0.02	±20 %	25 V, ceramic ---------	0.02
C320	1-127-019-11	0.1	±20 %	10 V, solid, aluminum -	0.06
C321	1-101-924	0.02	±20 %	25 V, ceramic ---------	0.02
C322	1-121-395	4.7	+150 -10 %	25 V, electrolytic ----	0.07
C323	1-101-924	0.02	±20 %	25 V, ceramic ---------	0.02
C324	1-121-415	100	+100 -10 %	16 V, electrolytic ----	0.06
C325	1-121-456	3.3	+150 -10 %	25 V, electrolytic ----	0.04
C326	1-121-456	3.3	+150 -10 %	25 V, electrolytic ----	0.04
C327	1-121-413	100	+100 -10 %	6.3 V, electrolytic ---	0.05
C328	1-105-677-12	0.022	±10 %	50 V, mylar -----------	0.02
C329	1-105-673-12	0.01	±10 %	50 V, mylar -----------	0.02
C330	1-105-677-12	0.022	±10 %	50 V, mylar -----------	0.02
C331	1-102-952	16 P	±5 %	50 V, ceramic ---------	0.02
C333	1-102-935	2 P	±0.25 P	50 V, ceramic ---------	0.02
C401	1-105-683-12	0.068	±10 %	50 V, mylar -----------	0.04
C406	1-105-669-12	0.0047	±10 %	50 V, mylar -----------	0.02
C407	1-121-413	100	+100 -10 %	6.3 V, electrolytic ---	0.05
C408	1-121-344	3.3	+150 -10 %	25 V, electrolytic ----	0.04
C409	1-127-021-11	0.33	±20 %	10 V, solid, aluminum -	0.06
C410	1-121-403	33	+100 -10 %	16 V, electrolytic ----	0.04

Ref. No.	Part No.	Description			Unit Price
C411	1-121-409	47	+100 -10 %	16 V, electrolytic ----	$0.04
C412	1-121-403	33	+100 -10 %	16 V, electrolytic ----	0.04
C413	1-127-022-11	0.47	±20 %	10 V, solid, aluminum -	0.06
C414	1-103-575	4700 P	±5 %	50 V, styrol ----------	0.13
C415	1-106-041-12	0.047	±5 %	50 V, mylar -----------	0.05
C416	1-106-041-12	0.047	±5 %	50 V, mylar -----------	0.05
C417	1-121-391	1	+150 -10 %	50 V, electrolytic ----	0.03
C418	1-121-391	1	+150 -10 %	50 V, electrolytic ----	0.03
C419	1-121-391	1	+150 -10 %	50 V, electrolytic ----	0.03
C420	1-121-391	1	+150 -10 %	50 V, electrolytic ----	0.03
C421	1-105-661-12	0.001	±10 %	50 V, mylar -----------	0.02
C422	1-105-661-12	0.001	±10 %	50 V, mylar -----------	0.02
C423	1-105-675-12	0.015	±10 %	50 V, mylar -----------	0.02
C424	1-121-403	33	+100 -10 %	16 V, electrolytic ----	0.04
C425	1-101-884	56 P	±5 %	50 V, ceramic ---------	0.02
C426	1-101-884	56 P	±5 %	50 V, ceramic ---------	0.02
C427	1-121-344	3.3	+150 -10 %	25 V, electrolytic ----	0.04
C428	1-121-344	3.3	+150 -10 %	25 V, electrolytic ----	0.04
C429	1-121-420	220	+100 -10 %	10 V, electrolytic ----	0.07
C430	1-121-420	220	+100 -10 %	10 V, electrolytic ----	0.07
C431	1-121-395	4.7	+150 -10 %	25 V, electrolytic ----	0.07
C432	1-121-395	4.7	+150 -10 %	25 V, electrolytic ----	0.07
C433	1-121-395	4.7	+150 -10 %	25 V, electrolytic ----	0.07
C434	1-121-395	4.7	+150 -10 %	25 V, electrolytic ----	0.07
C435	1-105-671-12	0.0068	±10 %	50 V, mylar -----------	0.02
C436	1-121-409	47	+100 -10 %	16 V, electrolytic ----	0.04
C437	1-121-471	10	+100 -10 %	16 V, electrolytic ----	0.04
C501	1-121-471	10	+100 -10 %	16 V, electrolytic ----	0.04
C502	1-121-471	10	+100 -10 %	16 V, electrolytic ----	0.04
C503	1-105-841-12	0.047	±20 %	50 V, mylar -----------	0.03
C504	1-105-841-12	0.047	±20 %	50 V, mylar -----------	0.03
C505	1-105-841-12	0.047	±20 %	50 V, mylar -----------	0.03
C507	1-105-821-12	0.001	±20 %	50 V, mylar -----------	0.02
C508	1-103-722	750 P	±5 %	50 V, styrol ----------	0.03
C509	1-105-821-12	0.001	±20 %	50 V, mylar -----------	0.02
C510	1-105-841-12	0.047	±20 %	50 V, mylar -----------	0.03
C511	1-105-829-12	0.0047	±20 %	50 V, mylar -----------	0.02
C512	1-105-835-12	0.015	±20 %	50 V, mylar -----------	0.02
C513	1-105-821-12	0.001	±20 %	50 V, mylar -----------	0.02
C514	1-105-835-12	0.015	±20 %	50 V, mylar -----------	0.02
C515	1-101-973	100 P	±5 %	50 V, ceramic ---------	0.02
C517	1-101-977	200 P	±5 %	50 V, ceramic ---------	0.02

Ref. No.	Part No.	Description			Unit Price
C518	1-105-833-12	0.01	±20 %	50 V, mylar	$0.02
C519	1-103-717	470 P	±5 %	50 V, styrol	0.03
C520	1-121-471	10	+100 -10 %	16 V, electrolytic	0.04
C521	1-105-821-12	0.001	±20 %	50 V, mylar	0.02
C522	1-121-393	3.3	+150 -10 %	50 V, electrolytic	0.03
C523	1-101-924	0.02	+80 -20 %	25 V, ceramic	0.02
C524	1-121-415	100	+100 -10 %	16 V, electrolytic	0.06
C525	1-121-393	3.3	+150 -10 %	50 V, electrolytic	0.03
C526	1-105-845-12	0.1	±20 %	50 V, mylar	0.05
C527	1-121-415	100	+100 -10 %	16 V, electrolytic	0.06
C528	1-121-415	100	+100 -10 %	16 V, electrolytic	0.06
C529	1-103-725	1000 P	±5 %	50 V, styrol	0.03
C530	1-103-734	2400 P	±5 %	50 V, styrol	0.03
C531	1-103-734	2400 P	±5 %	50 V, styrol	0.03
C532	1-103-734	2400 P	±5 %	50 V, styrol	0.03
C533	1-103-734	2400 P	±5 %	50 V, styrol	0.03
C534	1-103-734	2400 P	±5 %	50 V, styrol	0.03
C535	1-103-734	2400 P	±5 %	50 V, styrol	0.03
C536	1-103-734	2400 P	±5 %	50 V, styrol	0.03
C537	1-103-725	1000 P	±5 %	50 V, styrol	0.03
C601	1-121-471	10	+100 -10 %	16 V, electrolytic	0.04
C602	1-121-471	10	+100 -10 %	16 V, electrolytic	0.04
C603	1-121-471	10	+100 -10 %	16 V, electrolytic	0.04
C604	1-121-471	10	+100 -10 %	16 V, electrolytic	0.04
C605	1-121-420	220	+100 -10 %	10 V, electrolytic	0.07
C606	1-121-420	220	+100 -10 %	10 V, electrolytic	0.07
C607	1-121-402	33	+100 -10 %	10 V, electrolytic	0.05
C608	1-121-402	33	+100 -10 %	10 V, electrolytic	0.05
C701	1-121-388	1000	+100 -10 %	35 V, electrolytic	0.22
C702	1-121-422	220	+100 -10 %	25 V, electrolytic	0.11
C703	1-121-409	47	+100 -10 %	16 V, electrolytic	0.04
C704	1-121-422	220	+100 -10 %	25 V, electrolytic	0.11
C705	1-105-757-12	0.022	±10 %	220 V, mylar	0.05
C706	1-105-757-12	0.022	±10 %	220 V, mylar	0.05
C801	1-121-420	220	+100 -10 %	10 V, electrolytic	0.07
C802	1-105-677-12	0.022	±10 %	50 V, mylar	0.02
C803	1-105-677-12	0.022	±10 %	50 V, mylar	0.02
C804	1-102-977	200 P	±5 %	50 V, ceramic	0.03
CT301	1-141-095	Capacitor, trimmer			0.07
CT302	1-141-095	Capacitor, trimmer			0.07

Ref. No.	Part No.	Description	Unit Price
		Resistors	
		All resistance values are in Ω, ±5 %, 1/4 W and carbon type, unless otherwise indicated.	
R101	1-244-709	33 k	$0.02
R102	1-244-713	47 k	0.02
R103	1-244-657	220	0.02
R104	1-242-697	10 k	0.02
R105	1-242-721	100 k	0.02
R106	1-242-633	22	0.02
R107	1-244-665	470	0.02
R108	1-242-697	10 k	0.02
R109	1-242-691	5.6 k	0.02
R110	1-242-653	150	0.02
R111	1-244-633	22	0.02
R112	1-242-661	330	0.02
R113	1-242-661	330	0.02
R114	1-242-671	820	0.02
R115	1-244-633	22	0.02
R116	1-242-677	1.5 k	0.02
R117	1-242-721	100 k	0.02
R118	1-242-721	100 k	0.02
R119	1-244-729	220 k	0.02
R120	1-242-689	4.7 k	0.02
R121	1-244-643	56	0.02
R122	1-242-677	1.5 k	0.02
R123	1-242-677	1.5 k	0.02
R124	1-242-677	1.5 k	0.02
R125	1-242-691	5.6 k	0.02
R126	1-242-697	10 k	0.02
R127	1-244-657	220	0.02
R201	1-242-657	220	0.02
R202	1-242-671	820	0.02
R203	1-244-677	1.5 k	0.02
R204	1-244-685	3.3 k	0.02
R205	1-242-653	150	0.02
R206	1-244-673	1 k	0.02
R207	1-244-673	1 k	0.02
R208	1-242-671	820	0.02
R209	1-244-677	1.5 k	0.02

Ref. No.	Part No.	Description	Unit Price
R210	1-244-685	3.3 k	$0.02
R211	1-242-653	150	0.02
R212	1-244-673	1 k	0.02
R213	1-244-673	1 k	0.02
R214	1-242-649	100	0.02
R215	1-242-657	220	0.02
R216	1-242-671	820	0.02
R217	1-242-689	4.7 k	0.02
R218	1-242-675	1.2 k	0.02
R219	1-242-653	150	0.02
R220	1-242-663	390	0.02
R221	1-244-677	1.5 k	0.02
R222	1-242-679	1.8 k	0.02
R223	1-242-671	820	0.02
R224	1-244-673	1 k	0.02
R225	1-242-649	100	0.02
R226	1-242-659	270	0.02
R227	1-242-671	820	0.02
R228	1-242-653	150	0.02
R229	1-244-705	22 k	0.02
R230	1-242-695	8.2 k	0.02
R231	1-242-673	1 k	0.02
R232	1-242-649	100	0.02
R233	1-242-649	100	0.02
R234	1-244-709	33 k	0.02
R235	1-242-693	6.8 k	0.02
R236	1-242-673	1 k	0.02
R237	1-244-673	1 k	0.02
R238	1-244-673	1 k	0.02
R239	1-244-649	100	0.02
R240	1-242-743	820 k	0.02
R241	1-242-719	82 k	0.02
R242	1-242-691	5.6 k	0.02
R243	1-242-680	2 k	0.02
R244	1-242-691	5.6 k	0.02
R245	1-244-673	1 k	0.02
R246	1-242-673	1 k	0.02
R247	1-242-699	12 k	0.02
R248	1-244-745	1 M	0.02
R249	1-244-735	390 k	0.02
R250	1-242-745	1 M	0.02
R251	1-242-723	120 k	0.02
R252	1-242-710	39 k	0.02

Ref. No.	Part No.	Description	Unit Price
R253	1-242-721	100 k	$0.02
R254	1-242-657	220	0.02
R255	1-244-679	1.8 k	0.02
R256	1-242-705	22 k	0.02
R257	1-242-703	18 k	0.02
R258	1-242-689	4.7 k	0.02
R259	1-242-632	20	0.02
R260	1-244-701	15 k	0.02
R261	1-242-699	12 k	0.02
R262	1-242-632	20	0.02
R263	1-242-699	12 k	0.02
R264	1-244-701	15 k	0.02
R265	1-242-720	91 k	0.02
R266	1-244-733	330 k	0.02
R267	1-242-699	12 k	0.02
R268	1-242-713	47 k	0.02
R269	1-242-713	47 k	0.02
R270	1-242-699	12 k	0.02
R271	1-242-691	5.6 k	0.02
R272	1-242-713	47 k	0.02
R273	1-244-642	51	0.02
R274	1-244-642	51	0.02
R275	1-244-642	51	0.02
R276	1-242-649	100	0.02
R301	1-244-691	5.6 k	0.02
R302	1-244-708	30 k	0.02
R303	1-244-708	30 k	0.02
R304	1-244-634	24	0.02
R305	1-244-647	82	0.02
R306	1-244-708	30 k	0.02
R307	1-244-673	1 k	0.02
R308	1-244-691	5.6 k	0.02
R309	1-244-649	100	0.02
R310	1-244-719	82 k	0.02
R311	1-244-691	5.6 k	0.02
R312	1-244-673	1 k	0.02
R313	1-244-684	3 k	0.02
R314	1-244-689	4.7 k	0.02
R315	1-244-645	68	0.02
R316	1-244-657	220	0.02
R317	1-244-689	4.7 k	0.02
R318	1-244-645	68	0.02

Ref. No.	Part No.	Description	Unit Price
R319	1-202-565	470 ±10 % 1/2 W composition	$0.02
R320	1-244-673	1 k	0.02
R321	1-244-673	1 k	0.02
R322	1-244-680	2 k	0.02
R323	1-242-657	220	0.02
R324	1-242-701	15 k	0.02
R325	1-244-691	5.6 k	0.02
R326	1-244-689	4.7 k	0.02
R327	1-244-645	68	0.02
R328	1-244-673	1 k	0.02
R329	1-244-701	15 k	0.02
R330	1-244-680	2 k	0.02
R331	1-244-671	820	0.02
R332	1-244-657	220	0.02
R333	1-244-717	68 k	0.02
R334	1-244-670	750	0.02
R401	1-244-737	470 k	0.02
R403	1-244-673	1 k	0.02
R404	1-242-673	1 k	0.02
R406	1-244-706	24 k	0.02
R407	1-242-711	39 k	0.02
R408	1-244-689	4.7 k	0.02
R409	1-244-709	33 k	0.02
R410	1-244-643	56	0.02
R411	1-242-731	270 k	0.02
R412	1-244-689	4.7 k	0.02
R413	1-244-682	2.4 k	0.02
R414	1-244-689	4.7 k	0.02
R415	1-202-560	300 ±10 % 1/2 W composition	0.02
R416	1-244-690	5.1 k	0.02
R417	1-242-671	820	0.02
R418	1-244-649	100	0.02
R419	1-242-643	56	0.02
R420	1-244-673	1 k	0.02
R421	1-242-670	750	0.02
R422	1-242-670	750	0.02
R423	1-242-670	750	0.02
R424	1-242-670	750	0.02
R425	1-242-679	1.8 k	0.02
R426	1-242-679	1.8 k	0.02
R427	1-242-721	100 k	0.02
R428	1-242-721	100 k	0.02

Ref. No.	Part No.	Description	Unit Price
R429	1-242-693	6.8 k	$0.02
R430	1-242-693	6.8 k	0.02
R431	1-242-721	100 k	0.02
R432	1-242-721	100 k	0.02
R433	1-242-671	820	0.02
R434	1-242-671	820	0.02
R435	1-242-715	56 k	0.02
R436	1-242-715	56 k	0.02
R437	1-242-715	56 k	0.02
R438	1-242-715	56 k	0.02
R439	1-242-663	390	0.02
R440	1-242-663	390	0.02
R441	1-242-706	24 k	0.02
R442	1-242-706	24 k	0.02
R443	1-242-685	3.3 k	0.02
R444	1-242-685	3.3 k	0.02
R445	1-242-659	270	0.02
R446	1-242-659	270	0.02
R447	1-242-677	1.5 k	0.02
R448	1-242-677	1.5 k	0.02
R449	1-242-685	3.3 k	0.02
R450	1-242-685	3.3 k	0.02
R451	1-242-707	27 k	0.02
R452	1-242-707	27 k	0.02
R453	1-242-720	91 k	0.02
R454	1-242-720	91 k	0.02
R455	1-242-687	3.9 k	0.02
R456	1-242-687	3.9 k	0.02
R457	1-242-666	510	0.02
R458	1-242-666	510	0.02
R459	1-242-707	27 k	0.02
R460	1-242-707	27 k	0.02
R461	1-242-702	16 k	0.02
R462	1-242-702	16 k	0.02
R463	1-242-673	1 k	0.02
R464	1-242-673	1 k	0.02
R465	1-242-709	33 k	0.02
R466	1-242-667	560	0.02
*R467	1-244-704	20 k	0.02
	1-244-708	30 k	0.02
	1-244-713	47 k	0.02
	1-244-717	68 k	0.02
	1-244-715	82 k	0.02

* should be selected.

Ref. No.	Part No.	Description	Unit Price
R468	1-242-713	47 k	$0.02
R501	1-242-707	27 k	0.02
R502	1-242-707	27 k	0.02
R503	1-244-680	2 k	0.02
R504	1-242-697	10 k	0.02
R505	1-242-715	56 k	0.02
R506	1-242-661	330	0.02
R507	1-242-685	3.3 k	0.02
R508	1-244-697	10 k	0.02
R509	1-244-721	100 k	0.02
R510	1-244-697	10 k	0.02
R511	1-244-713	47 k	0.02
R512	1-244-731	270 k	0.02
R513	1-244-728	200 k	0.02
R514	1-242-721	100 k	0.02
R515	1-244-729	220 k	0.02
R516	1-242-729	220 k	0.02
R517	1-242-721	100 k	0.02
R518	1-244-729	220 k	0.02
R519	1-242-731	270 k	0.02
R520	1-242-737	470 k	0.02
R521	1-244-673	1 k	0.02
R522	1-242-661	330	0.02
R523	1-244-673	1 k	0.02
R524	1-242-701	15 k	0.02
R525	1-242-709	33 k	0.02
R526	1-242-717	68 k	0.02
R527	1-242-661	330	0.02
R528	1-242-683	2.7 k	0.02
R529	1-242-729	220 k	0.02
R530	1-242-701	15 k	0.02
R531	1-244-657	220	0.02
R532	1-244-888	4.3 k	0.02
R533	1-244-680	2 k	0.02
R534	1-242-680	2 k	0.02
R535	1-242-680	2 k	0.02
R536	1-242-707	27 k	0.02
R537	1-242-707	27 k	0.02
R538	1-242-707	27 k	0.02
R539	1-242-656	200	0.02
R540	1-242-680	2 k	0.02
R541	1-242-715	56 k	0.02

Ref. No.	Part No.	Description	Unit Price
R542	1-242-680	2 k	$0.02
R543	1-244-707	27 k	0.02
R544	1-242-707	27 k	0.02
R545	1-242-687	3.9 k	0.02
R546	1-242-680	2 k	0.02
R547	1-242-737	470 k	0.02
R548	1-242-649	100	0.02
R549	1-242-737	470 k	0.02
R550	1-242-661	330	0.02
R551	1-242-673	1 k	0.02
R552	1-244-673	1 k	0.02
R553	1-242-659	270	0.02
R601	1-244-701	15 k	0.02
R602	1-244-701	15 k	0.02
R603	1-242-697	10 k	0.02
R604	1-242-697	10 k	0.02
R605	1-242-714	51 k	0.02
R606	1-242-714	51 k	0.02
R607	1-242-689	4.7 k	0.02
R608	1-242-689	4.7 k	0.02
R609	1-242-661	330	0.02
R610	1-242-661	330	0.02
R611	1-242-657	220	0.02
R612	1-242-657	220	0.02
R613	1-242-649	100	0.02
R614	1-242-649	100	0.02
R615	1-242-629	15	0.02
R616	1-242-629	15	0.02
R617	1-242-629	15	0.02
R618	1-242-629	15	0.02
R619	1-242-645	68	0.02
R620	1-242-645	68	0.02
R621	1-242-721	100 k	0.02
R622	1-242-721	100 k	0.02
R701	1-207-723	3.9 ±10 % 2 W wire-wound	0.08
R702	1-244-699	12 k	0.02
R703	1-244-699	12 k	0.02
R704	1-244-693	6.8 k	0.02

Ref. No.	Part No.	Description	Unit Price
*R705	1-244-692	6.2 k	$0.02
	1-244-693	6.8 k	0.02
	1-244-694	7.5 k	0.02
	1-244-695	8.2 k	0.02
	1-244-696	9.1 k	0.02
	1-244-697	10 k	0.02
R706	1-244-673	1 k	0.02
R801	1-244-646	75	0.02
R802	1-244-646	75	0.02
R803	1-202-645	1 M ±10 % 1/2 W composition (USA model only)	0.02
R804	1-244-723	120 k	0.02
R805	1-244-703	18 k	0.02
RT201	1-221-979	4.7 k (B), semi-fixed	0.13
RT202	1-222-969	100 k (B), semi-fixed	0.10
RT301	1-222-951	10 k (B), semi-fixed	0.09
RT401	1-222-948	3.3 k (B), semi-fixed	0.12
RT501	1-222-984	33 k (B), semi-fixed	0.15
RV601	1-222-588	50 k (B), variable (HEADPHONE LEVEL control)	0.19
RV602	1-222-588	50 k (B), variable (HEADPHONE LEVEL control)	0.19
RV801	1-222-282	10 k (B), variable (OUTPUT LEVEL control)	0.13
RV802	1-222-282	10 k (B), variable (OUTPUT LEVEL control)	0.13

* should be selected.

Switches

Ref. No.	Part No.	Description	Unit Price
S1	1-514-889	Switch, rotary (FUNCTION)	0.69
S2	1-514-888	Switch, rotary/lever (INS)	0.77
S3	1-514-888	Switch, rotary/lever (HI-BLEND)	0.77
S4	1-514-888	Switch, rotary/lever (MUTING)	0.77
S5	1-514-888	Switch, rotary/lever (AFC) (USA, GEP model only)	0.77
S6	1-514-887-11	Switch, lever (POWER) (GEP, NEP model)	0.42
	1-514-942	Switch, seesaw/lever (NEP model only)	0.67
S7	1-514-524	Switch, slide (DE-EMPHASIS)	0.12

Ref. No.	Part No.	Description	Unit Price
		Filters	
CF201 CF202 CF203 CF204 CF205 CF206 CF207 CF208	1-403-562-11 1-403-562-21 1-403-562-31 1-403-562-41 1-403-562-51	Fm I-f, ceramic 10.70 MHz (red) ------------- Fm I-f, ceramic 10.66 MHz (black) ----------- Fm I-f, ceramic 10.74 MHz (white) ----------- Fm I-f, ceramic 10.62 MHz (green) ----------- Fm I-f, ceramic 10.78 MHz (yellow) ----------	$0.50 0.50 0.50 0.50 0.50
LPF401	1-231-088	Filter, low-pass ----------------------------	1.27
		Miscellaneous	
CP801	1-231-057-12	Encapsulated Component, 120 Ω + 0.033 μF ----	0.12
J801	1-508-170 1-508-482-	Input Connector, COAXIAL cable ------------- 〃 〃 〃 (GEP, NEP)	0.26
J802	1-507-190	Jack, HEADPHONE ----------------------------	0.34
J803 J804 J805 J806	1-507-163	Phono Jack, 4-P ----------------------------	0.17
J807 J808	1-507-142	Phono Jack, 2-P ----------------------------	0.07
P1	1-509-445	AC Input Connector, 3-P (GEP, NEP Model only)	0.26
	1-517-021	Socket, pilot lamp -------------------------	0.05
PL1	1-518-011-04	Lamp, meter 8 V/150 mA ---------------------	0.04
PL2	1-518-051-71	Lamp, dial 4.5 V/40 mA (FM indicating) ------	0.10
PL3	1-518-051-22	Lamp, dial 4.5 V/40 mA (AM indicating) ------	0.10
PL4	1-518-011-04	Lamp, meter 8 V/150 mA ---------------------	0.04
PL5	1-518-070	Lamp, dial 8 V/300 mA ----------------------	0.12
PL6	1-518-070	Lamp, dial 8 V/300 mA ----------------------	0.12
PL7	1-518-051-61	Lamp, stereo 4.5 V/40 mA -------------------	0.10
M801	1-520-111	Meter, TUNING ------------------------------	1.39
M802	1-520-112	Meter, TUNER INPUT -------------------------	0.60

Ref. No.	Part No.	Description	Unit Price
V.S.	1-526-165	Voltage Changeover Block (GEP, NEP model only)	$0.22
F801	1-532-260	Fuse, 0.25 A (GEP model only)	0.16
	1-532-275	Fuse, 160 mAT (NEP model only)	0.06
	1-532-305	Fuse, 0.4 A (USA model only)	0.17
F802	1-532-260	Fuse, 0.25 A (GEP model only)	0.16
	1-532-204	Fuse, 2AT (AEP model only)	0.06
F803	1-532-074	Fuse, 200 mAT (NEP model only)	0.04
F804	1-532-074	Fuse, 200 mAT (NEP model only)	0.04
	1-533-051	Socket, dial lamp	0.04
	1-533-069	Socket, fuse: 4-P (NEP model only)	0.19
	1-534-526	Cord, power (USA model only)	0.30
	1-536-179	Terminal Strip, 1L1	0.02
	1-536-183	Terminal Strip, 2L3	0.02
TM801	1-536-286	Terminal Strip, 4-P	0.20

III. ACCESSORIES AND PACKING MARERIALS

Accessories

X-37930-04	Card Ass'y, warranty (USA model only)	0.06
X-44900-02	Cloth, polishing	0.03
1-501-083-21	Ribbon Antenna, fm	0.38
1-506-305-12	Plug Connector, COAXIAL cable (USA model only)	0.31
1-508-482	Plug Connector, COAXIAL cable (GEP, NEP model)	0.35
1-534-049-31	Connecting Cord, RK-74	0.48
2-057-975	Bag, polyethylene; connecting cord	0.01
3-701-020	Bag, polyethylene; accessories	0.01
3-790-990-21	Manual, instruction (USA model only)	0.40
3-790-990-11	Manual, instruction (GEP, NEP model)	0.40
3-793-183	Card, inspection	0.01

Ref. No.	Part No.	Description	Unit Price
		Packing Materials	
	X-48090-12	Carton Ass'y	$2.22
	(4-809-022)	Carton	-
	(4-804-216)	Cushion, inner	-
	(4-804-217)	Cushion, upper	-
	(4-804-218)	Cushion, lower	-
	3-701-268	Bag, polyethylene	0.03

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SONY®

部品価格表

AUDIO

ST-5130

専用部品コード　X-48090-□□　4-809-0□□

部品コード	品名	定価	図	備考
	組立部品			
X-20437-13-0	**アンテナ金具組立**	30	3	
2-043-744-00	アンテナ金具　(A)			
〃 -745-00	〃　(B)			
7-625-314-00	薄平リベット　3×3			
X-20437-54-0	**フライホイール組立**	120	2	
2-047-141-00	フライホイール			
7-682-148-07	⊕P　3×8（くぼみ先）			
X-34340-34-0	**配線押え（B）組立**	20	2, 3	
3-434-213-00	配線押え　(B)			
〃 -214-00	チューブ			
X-48030-09-1	**丸型レバーつまみ（B）組立** POWER, INS, MUTING, AFC, HI-BLEND	50	2	
2-047-225-00	丸型レバーつまみ			
303-018-00	つまみキャップ　(B)			
X-480[illegible]2-03-1	**つまみ　NA-15-54 組立** HEADPHONE LEVEL, FUNCTION	200	2	
4-804-210-00	つまみ　NA-15-54			
7-683-138-00	押しねじ　3×4			
X-48090-01-0	**つまみ　NA-28-73 組立**	170	2	TUNING
4-809-001-00	つまみ　NA-28-73			
7-683-148-00	止めねじ 4×8（くぼみ先）			

部品コード	品名	定価	図	備考
X-48090-02-0	**指針組立**	80	2	
4-809-002-00	指針台			
〃 -003-00	指針			
〃 -004-00	テフロンテープ			
X-48090-03-0	**プーリー軸取付金具組立**	80	2	
2-057-918-00	プーリー軸　(B)			
4-809-005-00	プーリー軸取付金具			
X-48090-04-0	**指針台ガイド組立**	350	2	
2-057-918-00	プーリー軸　(B)			
4-809-006-00	指針台ガイド			
〃 -007-00	バック板			
X-48090-05-0	**サブパネル組立**	1,000	2	
4-804-112-00	ランプカバー取付金具			
4-809-008-00	側板			
〃 -009-00	基板取付金具　(A)			
〃 -010-00	取付金具　(A)			
〃 -011-00	〃　(B)			
〃 -012-00	サブパネル			
X-48090-06-0	**バンド表示エスカッション組立**	120	2	
4-809-013-00	バンド表示エスカッション			
〃 -014-00	FM表示板			
〃 -015-00	AM　〃			

部品コード	品名	定価	図	備考
X-48090-07-0	**ステレオ表示板（B）組立**	**70**	**2**	
4-809-016-00	ステレオ表示エスカッション（B）			
〃 -017-00	ステレオ表示板（B）			
	単体部品			
0-051-263-00	ゴム足	30	1	
2-043-776-00	パネル止め板	15	2	
2-047-106-00	しゃ光板（A）	4	2	
〃 -151-00	アンテナバンド	15	3	
2-051-919-00	ジャックエスカッション	15	2	
2-056-635-00	VC取付板	50	3	
〃 -643-00	VCクッション	4	3	
〃 -647-00	光もれ防止ラバー（B）	2	2	
2-057-730-00	プーリー 14φ	15	2	
2-066-107-00	ケース止めねじ	40	1	
2-068-548-00	アンテナ金具（C）	20	3	
〃 -554-00	トランス補助板	2	3	
3-409-124-00	ナイロンワッシャ	3	2	
3-410-032-00	コードストッパ（小）	10	3	
3-442-022-00	ランプ押え	10	2	
3-701-030-00	機番セルフラベル	1	3	
〃 -402-00	TAリベットねじ	4	3	補修用
3-811-140-00	プーリー	15	2	
3-820-225-00	ナイロンワッシャ	4	1	
3-827-021-00	コードストッパ	8	3	
4-303-479-00	HVリードクランパ	10	3	
4-801-216-00	ヒートシンク	30	4	
4-803-038-00	フロントエンドダストカバー	120	3	
4-804-142-00	ランプカバー	10	2	
〃 -160-00	TA⊕B 3×6（2種）	2	3	先端溝付 座面凸付
4-809-031-00	パネル	2,200	2	
〃 -032-00	ジャック板	450	3	
〃 -033-00	ケース	1,400	1	
〃 -034-00	メータランプカバー	40	2	
〃 -035-00	ランプカバー	10	2	
〃 -036-00	目盛板クッション	20	2	
4-809-037-00	基板取付金具（C）	50	3	
〃 -038-00	取付金具（C）	50	2	
〃 -039-00	〃（D）	50	2	
〃 -040-00	ランプ取付金具（A）	20	2	
〃 -041-00	〃（B）	20	2	
〃 -042-00	目盛板押え	15	2	
〃 -043-00	目盛板	300	2	
〃 -044-00	フロントガラス	170	2	
〃 -045-00	チューニングシャフト	60	2	
〃 -046-00	ホイール取付板	100	2	
〃 -047-00	フロントガラス押え（A）	30	2	
〃 -048-00	VRストッパ（B）	15	3	
〃 -049-00	ダイヤルドラム	30	3	
〃 -050-00	糸掛けばね	20	3	
〃 -051-00	底板	600	1	
〃 -052-00	ダイヤルエスカッション	2,000	2	
〃 -053-00	VC取付台	150	3	
〃 -054-00	フロントガラス押え（B）	30	2	
〃 -055-00	フロントガラスクッション	2	2	
〃 -056-00	機銘板	非売品	3	
〃 -057-00	シャシ	700	3	
〃 -058-00	光もれ防止カバー（B）	5	2	
〃 -059-00	糸掛け説明紙	10	1	
〃 -060-00	反射シート	5	2	

部品コード	品名	定価	図	備考
	ビス・ナット類			
	(100 個単位)			
7-621-259-23	⊕ P 2.6×4	(200)		
7-623-108-18	W 3 φ (中)	(20)		
〃 -110-12	〃 4 φ (〃)	(20)		
〃 -207-12	S W 2.6 φ	(20)		
〃 -208-27	〃 3 φ	(20)		
〃 -408-02	外菊W 3 φ	(100)		
〃 -611-00	はとめ 1.5×3	(40)		
7-624-109-01	はさみW E-5	(200)		
7-625-314-00	薄平リベット 3×3	(80)		
7-633-120-32	テトロンダイヤル糸 3 φ	5		1 m単位
7-682-147-01	⊕ P 3×6	(200)		
〃 -148-01	〃 3×8	(200)		
〃 -148-07	⊕P 3×8 (くぼみ先)	(200)		
〃 -547-01	⊕ B 3×6	(200)		
〃 -549-01	〃 3×10	(200)		
〃 -563-01	〃 4×12	(200)		
〃 -646-01	⊕PS 3×5	(200)		
〃 -647-01	〃 3×6	(200)		
〃 -649-03	〃 3×10	(200)		
〃 -659-01	〃 4×5	(200)		
〃 -661-01	〃 4×8	(200)		
〃 -947-01	⊕PSW 3×6	(200)		
〃 -948-01	〃 3×8	(200)		
7-683-138-00	押しねじ 3×4	(100)		
〃 -148-00	止めねじ 4×8 (くぼみ先)	(200)		
7-684-013-01	N 3 φ	(100)		
〃 -024-00	〃 4 φ	(100)		
7-685-545-21	TA ⊕B 3×6	(200)		
〃 -545-23	〃 〃 3×6	(200)		
〃 -547-21	〃 〃 3×10	(200)		
	付属品・その他			
X-44900-02-0	**シリコン布組立**	**15**	**5**	
4-002-849-00	シリコン布			
4-490-012-00	ポリ袋			
X-48090-08-0	**カートン組立**	**1,000**	**5**	
4-804-216-00	クッション			
〃 -217-00	天部保護板			
〃 -218-00	引出し用段ボール			
4-809-018-00	個装カートン			
1-501-083-21	フィーダアンテナ	200	5	
1-508-458-11	Fプラグ (FP-33)	150	5	
1-534-049-31	接続コード (RK-74)	350	5	
2-057-975-00	付属品袋	15	5	
3-701-020-00	チェックシート袋(ポリ袋)	8	5	
〃 -026-00	タックラベル	4	5	
〃 -268-00	ポリ袋 (本体用)	20	5	
〃 -279-00	注意タグ	8	5	
3-790-990-01	取扱説明書	170	5	
3-791-990-00	ご愛用者カード	20	5	
3-792-990-00	プライスカード	20	5	
3-793-183-00	検査票	4	5	
3-797-990-00	保証書	10	5	
	商品のしおり			
	AN-31 のカタログ			

記号	品名	部品コード	定価	備考
	電気部品			
B_1	アンテナマッチングトランス	1-417-014-21	100	
$CF_{201\sim208}$	FMセラミックフィルタ	1-403-562-92	80	
CFT_{301}	トリプルチューン IFT	〃 -150-00	170	
CP_{801}	CR複合部品 (0.033μF+120Ω)	1-231-057-00	70	
$CT_{301,302}$	トリマコンデンサ (16～1.5PF)	1-141-095-00	30	
$CV^{101\sim105}_{801,802}$	FM/AM 7連バリコン	1-151-221-00	1,600	
F_{701}	ヒューズ (0.5A)	1-532-262-00	80	
IFT_{101}	FM IFT	1-403-295-00	70	
IFT_{301}	AM 〃	〃 -149-00	50	
J_{801}	F型レセプタクル	1-508-170-00	140	
J_{802}	ステレオヘッドホンジャック	1-507-190-12	180	
$J_{803\sim806}$	4Pピンジャック板	〃 -163-00	90	
$J_{807,808}$	2P 〃	〃 -142-00	40	
L_{101}	アンテナコイル	1-401-458-00	70	
L_{102}	高周波コイル (1)	1-425-675-00	60	
$L_{103,104}$	〃 (2)	〃 -676-00	60	
L_{105}	発振コイル	1-405-480-00	60	
L_{106}	マイクロインダクタ 470μH	1-407-177-00	20	
$L_{201,202}$	〃 100μH	〃 -169-00	20	
L_{203}	〃 3.3μH	〃 -184-00	20	
L_{204}	〃 100μH	〃 -169-00	20	
L_{205}	〃 22mH	〃 -408-00	30	
L_{206}	〃 33μH	〃 -163-00	20	
L_{207}	〃 3.3μH	〃 -184-00	20	
L_{301}	〃 100μH	〃 -169-00	20	
L_{501}	〃 1.8mH	〃 -197-00	30	
L_{502}	〃 1.5mH	〃 -213-00	30	
$L_{503\sim509}$	遅延コイル (B)	1-415-044-00	100	
L_{510}	〃 (A)	〃 -043-00	100	
$L_{801,802}$	マイクロインダクタ 2.2μH	1-407-182-00	20	
LPF_{401}	ローパスフィルタ	1-231-088-00	500	
M_{801}	チューニングメータ	1-520-097-00	500	
M_{802}	チューナインプットメータ	〃 -086-00	500	
MU_{401}	MPXコイルユニット	1-425-548-00	250	
PL_1	パイロットランプ (8V 150mA)	1-518-011-00	15	
PL_2	ダイヤルランプ (4.5V 40mA)	〃 -051-71	35	
PL_3	〃 (〃)	〃 -051-22	35	
PL_4	パイロットランプ (8V 150mA)	〃 -011-00	15	
$PL_{5,6}$	ヒューズ型パイロットランプ (8V 300mA)	1-518-070-00	70	
PL_7	ダイヤルランプ (4.5V 40mA)	〃 -051-22	35	
PT_{801}	電源トランス	1-441-756-00	1,200	
RT_{201}	半固定VR 4.7kΩ (B) FM METER LEVEL	1-222-979-00	80	
RT_{202}	〃 100kΩ (B) MUTING LEVEL	1-221-966-00	50	
RT_{301}	〃 10kΩ (B) AM METER LEVEL	〃 -951-00	40	
RT_{401}	〃 3.3kΩ (B) SEPARATION	〃 -948-00	40	
RT_{501}	〃 33kΩ (B) INS LEVEL	〃 -984-00	40	
$RV_{601,651}$	VR 50kΩ(A)/50kΩ(A) HEADPHONE LEVEL	〃 -525-00	250	
$RV_{801,802}$	〃 10kΩ (B) OUT PUT	〃 -282-11	50	
S_1	ロータリスイッチ FUNCTION	1-514-889-00	300	
$S_{2\sim5}$	レバーロータリスイッチ AFC, MUTING, INS, HI-BLEND	〃 -888-00	350	
S_6	レバースイッチ POWER	〃 -887-00	200	
T_{201}	FMディスクリトランス	1-403-291-00	150	
T_{202}	FM IFT	〃 -299-00	70	
T_{301}	MW発振コイル	1-405-459-00	60	
T_{401}	スイッチングトランス	1-425-260-00	200	
TM_{801}	4P端子板	1-536-286-00	100	
	ケース入りフェライトバーアンテナ	1-401-439-41	300	
	パイロットランプソケット	1-517-021-00	25	
	ヒューズ型ランプホルダ	1-533-051-00	20	
	電源コード	1-534-487-00	150	
	C型 1L1 ラグ端子板	1-536-179-00	8	
	〃 2L3 〃	〃 -183-00	10	
	プリント基板用端子	〃 -248-00	2	
	プリント基板 (AM)	1-581-164-00	80	
	〃 (INS)	〃 -181-00	120	
	〃 (IF)	〃 -182-00	150	
	〃 (ヘッドホン)	〃 -183-00	60	
	〃 (フロントエンド)	〃 -184-00	120	
	〃 (電源)	〃 -185-00	100	
	〃 (MPX)	〃 -186-00	150	

記号	品名	部品コード	定価	備考
	抵抗			
R_{101}	カーボン 33kΩ RD¼SR	1-244-709-11	10	
R_{102}	〃 47kΩ 〃	〃 -713-11	10	
R_{103}	〃 220Ω 〃	〃 -657-11	10	
R_{104}	〃 10kΩ RD¼UR	1-242-697-11	10	
R_{105}	〃 100kΩ 〃	〃 -721-11	10	
R_{106}	〃 22Ω 〃	〃 -633-11	10	
R_{107}	〃 470Ω RD¼SR	1-244-665-11	10	
R_{108}	〃 10kΩ RD¼UR	1-242-697-11	10	
R_{109}	〃 5.6kΩ 〃	〃 -691-11	10	
R_{110}	〃 150Ω 〃	〃 -653-11	10	
R_{111}	〃 22Ω RD¼SR	1-244-633-11	10	
$R_{112, 113}$	〃 330Ω RD¼UR	1-242-661-11	10	
R_{114}	〃 820Ω 〃	〃 -671-11	10	
R_{115}	〃 22Ω RD¼SR	1-244-633-11	10	
R_{116}	〃 1.5kΩ RD¼UR	1-242-677-11	10	
$R_{117, 118}$	〃 100kΩ 〃	〃 -721-11	10	
R_{119}	〃 220kΩ RD¼SR	1-244-729-11	10	
R_{120}	〃 4.7kΩ RD¼UR	1-242-689-11	10	
R_{121}	〃 220Ω RD¼SR	1-244-657-11	10	
$R_{122\sim124}$	〃 2.2kΩ RD¼UR	1-242-681-11	10	
R_{125}	〃 5.6kΩ 〃	〃 -691-11	10	
R_{126}	〃 10kΩ 〃	〃 -697-11	10	
R_{127}	〃 220Ω RD¼SR	1-244-657-11	10	
R_{201}	カーボン 510Ω RD¼UR	1-242-666-11	10	
R_{202}	〃 820Ω 〃	〃 -671-11	10	
R_{203}	〃 1.5kΩ RD¼SR	1-244-677-11	10	
R_{204}	〃 3.3kΩ 〃	〃 -685-11	10	
R_{205}	〃 150Ω RD¼UR	1-242-653-11	10	
$R_{206, 207}$	〃 1kΩ RD¼SR	1-244-673-11	10	
R_{208}	〃 820Ω RD¼UR	1-242-671-11	10	
R_{209}	〃 1.5kΩ RD¼SR	1-244-677-11	10	
R_{210}	〃 3.3kΩ 〃	〃 -685-11	10	
R_{211}	〃 150Ω RD¼UR	1-242-653-11	10	
$R_{212, 213}$	〃 1kΩ RD¼SR	1-244-673-11	10	
R_{214}	〃 100Ω RD¼UR	1-242-649-11	10	
R_{215}	〃 220Ω 〃	〃 -657-11	10	
R_{216}	〃 820Ω 〃	〃 -671-11	10	
R_{217}	カーボン 4.7kΩ RD¼UR	1-242-689-11	10	
R_{218}	〃 1.2kΩ 〃	〃 -675-11	10	
R_{219}	〃 150Ω 〃	〃 -653-11	10	
R_{220}	〃 390Ω 〃	〃 -663-11	10	
R_{221}	〃 1.5kΩ RD¼SR	1-244-677-11	10	
R_{222}	〃 1.8kΩ RD¼UR	1-242-679-11	10	
R_{223}	〃 820Ω 〃	〃 -671-11	10	
R_{224}	〃 1kΩ RD¼SR	1-244-673-11	10	
R_{225}	〃 100Ω RD¼UR	1-242-649-11	10	
R_{226}	〃 270Ω 〃	〃 -659-11	10	
R_{227}	〃 820Ω 〃	〃 -671-11	10	
R_{228}	〃 150Ω 〃	〃 -653-11	10	
R_{229}	〃 22kΩ RD¼SR	1-244-705-11	10	
R_{230}	〃 8.2kΩ RD¼UR	1-242-695-11	10	
R_{231}	〃 1kΩ 〃	〃 -673-11	10	
$R_{232, 233}$	〃 100Ω 〃	〃 -649-11	10	
R_{234}	〃 33kΩ RD¼SR	1-244-709-11	10	
R_{235}	〃 10kΩ RD¼UR	1-242-697-11	10	
R_{236}	〃 1kΩ 〃	〃 -673-11	10	
$R_{237, 238}$	〃 1kΩ RD¼SR	1-244-673-11	10	
R_{239}	〃 100Ω 〃	〃 -649-11	10	
R_{240}	〃 820kΩ RD¼UR	1-242-743-11	10	
R_{241}	〃 82kΩ 〃	〃 -719-11	10	
R_{242}	〃 5.6kΩ 〃	〃 -691-11	10	
R_{243}	〃 2kΩ 〃	〃 -680-11	10	
R_{244}	〃 5.6kΩ 〃	〃 -691-11	10	
R_{245}	〃 1kΩ RD¼SR	1-244-673-11	10	
R_{246}	〃 1kΩ RD¼UR	1-242-673-11	10	
R_{247}	〃 12kΩ 〃	〃 -699-11	10	
R_{248}	〃 1MΩ RD¼SR	1-244-745-11	10	
R_{249}	〃 390kΩ 〃	〃 -735-11	10	
R_{250}	〃 1MΩ RD¼UR	1-242-745-11	10	
R_{251}	〃 120kΩ 〃	〃 -723-11	10	
R_{252}	〃 39kΩ 〃	〃 -710-11	10	
R_{253}	〃 100kΩ 〃	〃 -721-11	10	
R_{254}	〃 220Ω 〃	〃 -657-11	10	
R_{255}	〃 1.8kΩ RD¼SR	1-244-679-11	10	
R_{256}	〃 22kΩ RD¼UR	1-242-705-11	10	
R_{257}	〃 18kΩ 〃	〃 -703-11	10	
R_{258}	〃 4.7kΩ 〃	〃 -689-11	10	

記号	品名	部品コード	定価	備考	記号	品名	部品コード	定価	備考
R_{259}	カーボン 20Ω RD¼UR	1-242-632-11	10		R_{327}	カーボン 68Ω RD¼SR	1-244-645-11	10	
R_{260}	〃 15kΩ 〃	〃 -701-11	10		R_{328}	〃 1kΩ 〃	〃 -673-11	10	
R_{261}	〃 12kΩ 〃	〃 -699-11	10		R_{329}	〃 15kΩ 〃	〃 -701-11	10	
R_{262}	〃 20Ω 〃	〃 -632-11	10		R_{330}	〃 2kΩ 〃	〃 -680-11	10	
R_{263}	〃 12kΩ 〃	〃 -699-11	10		R_{331}	〃 820Ω 〃	〃 -671-11	10	
R_{264}	〃 15kΩ RD¼SR	1-244-701-11	10		R_{332}	〃 220Ω 〃	〃 -657-11	10	
R_{265}	〃 91kΩ RD¼UR	1-242-720-11	10		R_{333}	〃 100kΩ 〃	〃 -721-11	10	
R_{266}	〃 330kΩ 〃	〃 -733-11	10		R_{334}	〃 750Ω 〃	〃 -670-11	10	
R_{267}	〃 12kΩ 〃	〃 -699-11	10		R_{401}	カーボン 470kΩ RD¼SR	1-244-737-11	10	
$R_{268,\,269}$	〃 47kΩ 〃	〃 -713-11	10		R_{402}	〃 18kΩ RD¼UR	1-242-703-11	10	
R_{270}	〃 12kΩ 〃	〃 -699-11	10		R_{403}	〃 1kΩ RD¼SR	1-244-673-11	10	
R_{271}	〃 5.6kΩ 〃	〃 -691-11	10		R_{404}	〃 1kΩ RD¼UR	1-242-673-11	10	
R_{272}	〃 47kΩ 〃	〃 -713-11	10		R_{405}	〃 47kΩ RD¼SR	1-244-713-11	10	
$R_{273,\,274}$	〃 51Ω RD¼SR	1-244-642-11	10		R_{406}	〃 24kΩ 〃	〃 -706-11	10	
R_{275}	〃 51Ω RD¼UR	1-242-642-11	10		R_{407}	〃 39kΩ RD¼UR	1-242-711-11	10	
R_{301}	カーボン 5.6kΩ RD¼SR	1-244-691-11	10		R_{408}	〃 4.7kΩ RD¼SR	1-244-689-11	10	
R_{302}	〃 20kΩ 〃	〃 -704-11	10		R_{409}	〃 33kΩ 〃	〃 -709-11	10	
R_{303}	〃 30kΩ 〃	〃 -708-11	10		R_{410}	〃 56Ω 〃	〃 -643-11	10	
R_{304}	〃 24Ω 〃	〃 -634-11	10		R_{411}	〃 270kΩ RD¼UR	1-242-731-11	10	
R_{305}	〃 82Ω 〃	〃 -647-11	10		R_{412}	〃 750Ω RD¼SR	1-244-670-11	10	
R_{306}	〃 30kΩ 〃	〃 -708-11	10		R_{413}	〃 2.4kΩ 〃	〃 -682-11	10	
R_{307}	〃 1kΩ 〃	〃 -673-11	10		R_{414}	〃 4.7kΩ 〃	〃 -689-11	10	
R_{308}	〃 5.6kΩ 〃	〃 -691-11	10		R_{415}	ソリッド 270Ω RC½	1-202-559-31	10	機番 201051 以前
R_{309}	〃 100Ω 〃	〃 -649-11	10			〃 300Ω 〃	〃 -560-31	10	機番 201051 以降
R_{310}	〃 82kΩ 〃	〃 -719-11	10		R_{416}	カーボン 5.1kΩ RD¼SR	1-244-690-11	10	
R_{311}	〃 5.6kΩ 〃	〃 -691-11	10		R_{417}	〃 820Ω RD¼UR	1-242-671-11	10	
R_{312}	〃 1kΩ 〃	〃 -673-11	10		R_{418}	〃 100Ω RD¼SR	1-244-649-11	10	
R_{313}	〃 3kΩ 〃	〃 -684-11	10		R_{419}	〃 56Ω RD¼UR	1-242-643-11	10	
R_{314}	〃 4.7kΩ 〃	〃 -689-11	10		R_{420}	〃 1kΩ RD¼SR	1-244-673-11	10	
R_{315}	〃 68Ω 〃	〃 -645-11	10		$R_{421\sim424}$	〃 750Ω RD¼UR	1-242-670-11	10	
R_{316}	〃 220Ω 〃	〃 -657-11	10		$R_{425,\,426}$	〃 1.8kΩ 〃	〃 -679-11	10	
R_{317}	〃 4.7kΩ 〃	〃 -689-11	10		$R_{427,\,428}$	〃 100kΩ 〃	〃 -721-11	10	
R_{318}	〃 68Ω 〃	〃 -645-11	10		$R_{429,\,430}$	〃 6.8kΩ 〃	〃 -693-11	10	
R_{319}	ソリッド 470Ω RC½	1-202-565-31	10		$R_{431,\,432}$	〃 100kΩ 〃	〃 -721-11	10	
$R_{320,\,321}$	カーボン 1kΩ RD¼SR	1-244-673-11	10		$R_{433,\,434}$	〃 820Ω 〃	〃 -671-11	10	
R_{322}	〃 2kΩ 〃	〃 -680-11	10		$R_{435\sim438}$	〃 56kΩ 〃	〃 -715-11	10	
R_{323}	〃 220Ω 〃	〃 -657-11	10		$R_{439,\,440}$	〃 390Ω 〃	〃 -663-11	10	
R_{324}	〃 15kΩ RD¼UR	1-242-701-11	10		$R_{441,\,442}$	〃 24kΩ 〃	〃 -706-11	10	
R_{325}	〃 5.6kΩ RD¼SR	1-244-691-11	10		$R_{443,\,444}$	〃 3.3kΩ 〃	〃 -685-11	10	
R_{326}	〃 4.7kΩ 〃	〃 -689-11	10		$R_{445,\,446}$	〃 270Ω 〃	〃 -659-11	10	

記号	品名	部品コード	定価	備考
$R_{447,448}$	カーボン 1.5kΩ RD¼UR	1-242-677-11	10	
$R_{449,450}$	〃 3.3kΩ 〃	〃 -685-11	10	
$R_{451,452}$	〃 27kΩ 〃	〃 -707-11	10	
$R_{453,454}$	〃 91kΩ 〃	〃 -720-11	10	
$R_{455,456}$	〃 3.9kΩ 〃	〃 -687-11	10	
$R_{457,458}$	〃 510Ω 〃	〃 -666-11	10	
$R_{459,460}$	〃 27kΩ 〃	〃 -707-11	10	
$R_{461,462}$	〃 16kΩ 〃	〃 -702-11	10	
$R_{463,464}$	〃 1kΩ 〃	〃 -673-11	10	
R_{465}	〃 33kΩ 〃	〃 -709-11	10	
R_{466}	〃 560Ω 〃	〃 -667-11	10	
$R_{467,468}$ 調整用	〃 20kΩ RD¼SR	1-244-704-11	10	
	〃 30kΩ 〃	〃 -708-11	10	
	〃 47kΩ 〃	〃 -713-11	10	
	〃 68kΩ 〃	〃 -717-11	10	
	〃 82kΩ 〃	〃 -715-11	10	
R_{501}	カーボン 27kΩ RD¼SR	1-244-707-11	10	
R_{502}	〃 27kΩ RD¼UR	1-242-707-11	10	
R_{503}	〃 2kΩ RD¼SR	1-244-680-11	10	
R_{504}	〃 10kΩ 〃	〃 -697-11	10	
R_{505}	〃 56kΩ RD¼UR	1-242-715-11	10	
R_{506}	〃 330Ω RD¼SR	1-244-661-11	10	
R_{507}	〃 3.3kΩ RD¼UR	1-242-685-11	10	
R_{508}	〃 10kΩ RD¼SR	1-244-697-11	10	
R_{509}	〃 100kΩ 〃	〃 -721-11	10	
R_{510}	〃 10kΩ 〃	〃 -697-11	10	
R_{511}	〃 47kΩ 〃	〃 -713-11	10	
R_{512}	〃 270kΩ 〃	〃 -731-11	10	
R_{513}	〃 200kΩ 〃	〃 -728-11	10	
R_{514}	〃 100kΩ RD¼UR	1-242-721-11	10	
R_{515}	〃 220kΩ RD¼SR	1-244-729-11	10	
R_{516}	〃 220kΩ RD¼UR	1-242-729-11	10	
R_{517}	〃 100kΩ 〃	〃 -721-11	10	
R_{518}	〃 220kΩ RD¼SR	1-244-729-11	10	
R_{519}	〃 270kΩ RD¼UR	1-242-731-11	10	
R_{520}	〃 470kΩ 〃	〃 -737-11	10	
R_{521}	〃 1kΩ RD¼SR	1-244-673-11	10	
R_{522}	〃 330Ω RD¼UR	1-242-661-11	10	
R_{523}	〃 1kΩ RD¼SR	1-244-673-11	10	
R_{524}	カーボン 15kΩ RD¼UR	1-242-701-11	10	
R_{525}	〃 33kΩ 〃	〃 -709-11	10	
R_{526}	〃 68kΩ 〃	〃 -717-11	10	
R_{527}	〃 330Ω 〃	〃 -661-11	10	
R_{528}	〃 2.7kΩ 〃	〃 -683-11	10	
R_{529}	〃 220kΩ 〃	〃 -729-11	10	
R_{530}	〃 15kΩ 〃	〃 -701-11	10	
R_{531}	〃 220Ω RD¼SR	1-244-657-11	10	
R_{532}	〃 5.6kΩ 〃	〃 -691-11	10	
$R_{533,534}$	〃 2kΩ 〃	〃 -680-11	10	
R_{535}	〃 2kΩ RD¼UR	1-242-680-11	10	
$R_{536\sim538}$	〃 27kΩ 〃	〃 -707-11	10	
R_{539}	〃 200Ω 〃	〃 -656-11	10	
R_{540}	〃 2kΩ 〃	〃 -680-11	10	
R_{541}	〃 56kΩ 〃	〃 -715-11	10	
R_{542}	〃 2kΩ 〃	〃 -680-11	10	
R_{543}	〃 27kΩ RD¼SR	1-244-707-11	10	
R_{544}	〃 27kΩ RD¼UR	1-242-707-11	10	
R_{545}	〃 39kΩ 〃	〃 -687-11	10	
R_{546}	〃 2kΩ 〃	〃 -680-11	10	
R_{547}	〃 470kΩ 〃	〃 -737-11	10	
R_{548}	〃 100Ω 〃	〃 -649-11	10	
R_{549}	〃 470kΩ 〃	〃 -737-11	10	
R_{550}	〃 330Ω RD¼SR	1-244-661-11	10	
R_{551}	〃 1kΩ RD¼UR	1-242-673-11	10	
R_{552}	〃 1kΩ RD¼SR	1-244-673-11	10	
R_{553}	〃 270Ω 〃	〃 -659-11	10	
$R_{601,651}$	カーボン 12kΩ RD¼SR	1-244-699-11	10	
$R_{602,652}$	〃 30kΩ 〃	〃 -708-11	10	
$R_{603,653}$	〃 100kΩ 〃	〃 -721-11	10	
$R_{604,654}$	〃 1kΩ 〃	〃 -673-11	10	
$R_{605,655}$	ソリッド 270Ω RC½	1-202-559-31	10	
$R_{606,656}$	カーボン 1kΩ RD¼SR	1-244-673-11	10	
$R_{607,657}$	〃 56Ω 〃	〃 -643-11	10	
R_{701}	巻線 3.9Ω 2W	1-207-723-11	30	
$R_{702,703}$	カーボン 12kΩ RD¼SR	1-244-699-11	10	
R_{704}	〃 6.8kΩ 〃	〃 -693-11	10	

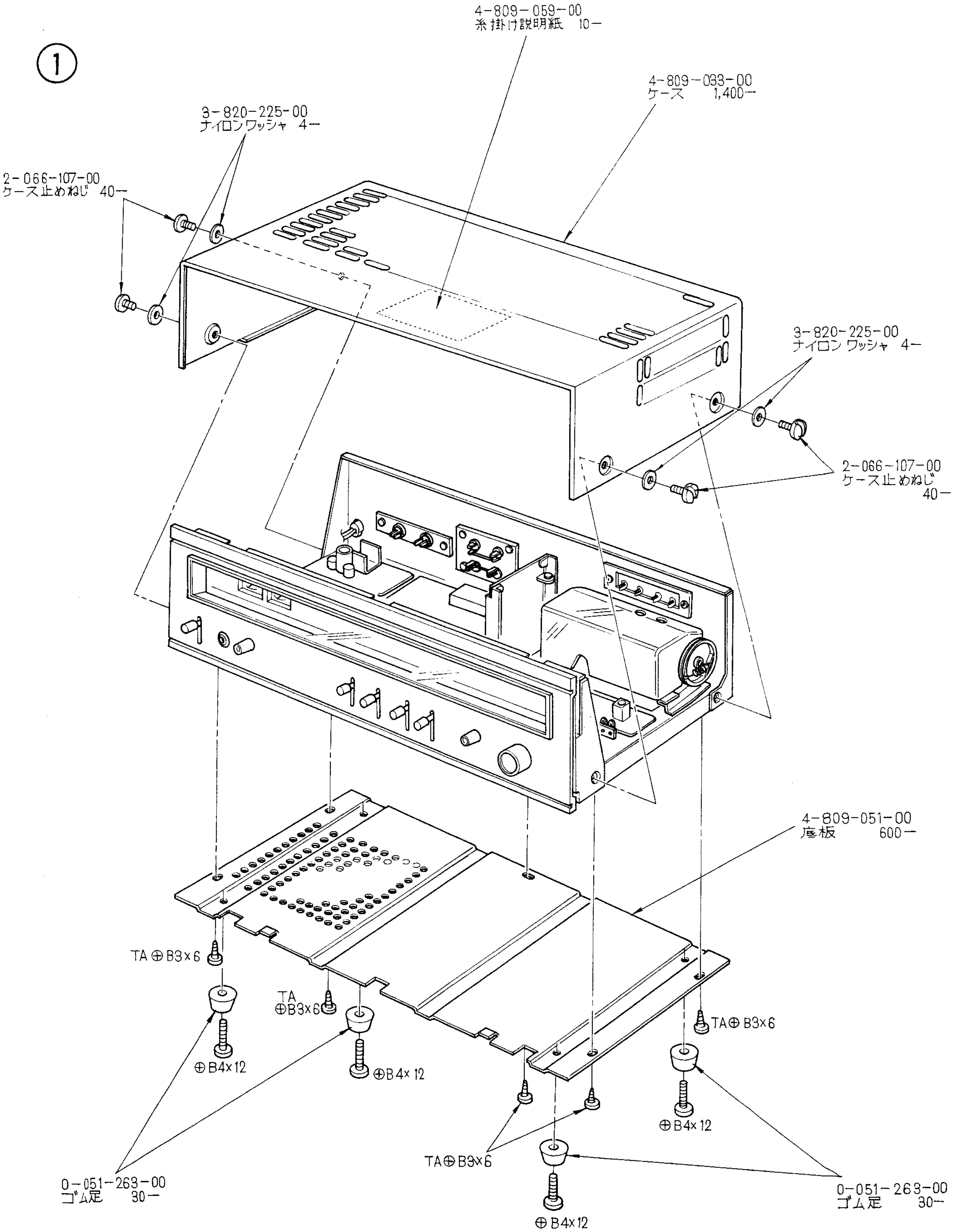
記号	品名	部品コード	定価	備考
	カーボン 6.2kΩ RD¼SR	1-244-692-11	10	
	〃 6.8kΩ 〃	〃 -693-11	10	
R705	〃 7.5kΩ 〃	〃 -694-11	10	
調整用	〃 8.2kΩ 〃	〃 -695-11	10	
	〃 9.1kΩ 〃	〃 -696-11	10	
	〃 10kΩ 〃	〃 -697-11	10	
R706	〃 1kΩ 〃	〃 -673-11	10	
R707	金属酸化皮膜 180Ω 2W	1-206-058-11	35	
R801, 802	カーボン 56Ω RD¼SR	1-244-643-11	10	
	コンデンサ			
C101	セラミック 24PF 50V	1-102-672-11	20	
C102	〃 0.001μF 〃	〃 -217-11	20	
C103	〃 24PF 〃	〃 -672-11	20	
C104, 105	〃 0.01μF 〃	1-101-118-11	20	
C106	〃 1PF 〃	〃 -937-11	20	
C107	〃 24PF 〃	1-102-672-11	20	
C108	〃 1PF 〃	1-101-937-11	20	
C109	〃 18PF 〃	1-102-670-11	20	
C110	〃 0.001μF 25V	1-101-918-11	20	
C111	〃 20PF 50V	1-102-991-11	20	
C112	〃 0.01μF 25V	1-101-923-11	20	
C113	〃 2PF 50V	1-102-023-11	20	
C114	〃 180PF 〃	〃 -848-11	20	
C115~118	〃 0.01μF 25V	1-101-923-11	20	
C119	〃 0.02μF 〃	〃 -924-11	20	
C120	〃 0.001μF 〃	〃 -918-11	20	
C121~123	〃 0.02μF 〃	〃 -924-11	20	
C124	〃 15PF 50V	1-102-894-11	20	
C125, 126	〃 20PF 〃	〃 -991-11	20	
C127	〃 3PF 〃	〃 -011-11	20	
C128	〃 0.02μF 25V	1-101-924-11	20	
C129	〃 0.01μF 〃	〃 -923-11	20	
C130	〃 7PF 50V	1-102-875-11	20	
C131	〃 0.001μF 25V	1-101-918-11	20	

記号	品名	部品コード	定価	備考
C132	セラミック 0.01μF 25V	1-101-923-11	20	
C133	〃 24PF 50V	1-102-672-11	20	
C201~203	セラミック 0.002μF 25V	1-101-919-11	20	
C204~206	〃 0.02μF 〃	〃 -924-11	20	
C207~211	〃 0.002μF 〃	〃 -919-11	20	
C214	マイラ 0.022μF 50V	1-105-837-12	20	
C215	〃 0.22μF 〃	〃 -689-12	20	
C216~218	セラミック 200PF 〃	1-102-977-11	20	
C219	ケミコン 10μF 16V	1-121-471-11	20	
C220	マイカ 240PF 50V	1-107-140-11	20	
C221	ケミコン 47μF 16V	1-121-409-11	35	
C222	セラミック 500PF 50V	1-101-424-11	20	
C223	ケミコン 1μF 〃	1-121-912-11	20	
C224	アルミ固体ケミコン 0.47μF 10V	1-127-022-11	35	
C225	セラミック 33PF 50V	1-102-963-11	20	
C227	〃 0.005μF 〃	1-101-922-11	20	
C228	マイラ 0.068μF 〃	1-105-683-12	20	
C229	ケミコン 1μF 〃	1-121-391-11	25	
C230	〃 4.7μF 〃	〃 -396-11	15	
C231~233	セラミック 24PF 〃	1-102-960-11	20	
C234~236	〃 0.02μF 25V	1-101-924-11	20	
C237	〃 24PF 50V	1-102-960-11	20	
C238	〃 200PF 〃	〃 -977-11	20	
C239	〃 24PF 〃	〃 -960-11	20	
C240	〃 200PF 〃	〃 -977-11	20	
C249	〃 0.02μF 25V	1-101-924-11	20	
C250, 251	ケミコン 10μF 16V	1-121-471-11	20	
C252, 253	セラミック 0.02μF 25V	1-101-924-11	20	
C254	ケミコン 10μF 16V	1-121-471-11	20	
C255	セラミック 0.02μF 25V	1-101-924-11	20	
C301	スチロール 390PF 50V	1-103-715-11	20	
C302	マイラ 0.0047μF 〃	1-105-669-12	20	
C303	〃 0.022μF 〃	〃 -677-12	20	
C304	セラミック 200PF 〃	1-102-977-11	20	
C305	〃 8PF 〃	〃 -945-11	20	
C306	マイラ 0.033μF 〃	1-105-679-12	20	
C307, 309, 311	〃 0.022μF 〃	〃 -677-12	20	

記号	品名			部品コード	定価	備考
C312	マイラ	0.01μF	50V	1-105-673-12	20	
C313	〃	0.1μF	〃	〃 -685-12	20	
C314	セラミック	56PF	〃	1-101-884-11	20	
C315	〃	0.02μF	25V	〃 -924-11	20	
C317	ケミコン	100μF	16V	1-121-415-11	30	
C318, 319	セラミック	0.02μF	25V	1-101-924-11	20	
C320	アルミ固体ケミコン	0.1μF	10V	1-127-019-11	35	
C321	セラミック	0.02μF	25V	1-101-924-11	20	
C322	ケミコン	4.7μF	〃	1-121-395-11	25	
C323	セラミック	0.02μF	〃	1-101-924-11	20	
C324	ケミコン	100μF	16V	1-121-415-11	30	
C325, 326	〃	3.3μF	25V	〃 -456-11	20	
C327	〃	100μF	6.3V	〃 -413-11	25	
C328	マイラ	0.022μF	50V	1-105-677-12	20	
C329	〃	0.01μF	〃	〃 -673-12	20	
C330	〃	0.022μF	〃	〃 -677-12	20	
C331	セラミック	16PF	〃	1-102-952-11	20	
C333	〃	2PF	〃	〃 -935-11	20	
C401	マイラ	0.068μF	50V	1-105-683-12	20	
C402	〃	0.0056μF	〃	〃 -670-12	20	
C403	〃	0.022μF	〃	〃 -677-12	20	
C406	〃	0.0047μF	〃	〃 -669-12	20	
C407	ケミコン	100μF	6.3V	1-121-413-11	25	
C408	〃	3.3μF	25V	〃 -344-11	25	
C409	アルミ固体ケミコン	0.33μF	10V	1-127-021-11	25	
C410	ケミコン	33μF	16V	1-121-403-11	20	
C411	〃	47μF	〃	〃 -409-11	35	
C412	〃	33μF	〃	〃 -403-11	20	
C413	アルミ固体ケミコン	0.47μF	10V	1-127-022-11	35	
C414	スチロール	4700PF	50V	1-103-575-11	20	
C415, 416	マイラ	0.047μF	〃	1-106-041-12	20	
C417~420	ケミコン	1μF	〃	1-121-391-11	25	
C421, 422	マイラ	0.001μF	〃	1-105-661-12	20	
C423	〃	0.015μF	〃	〃 -675-12	20	
C424	ケミコン	33μF	16V	1-121-403-11	20	
C425, 426	セラミック	56PF	50V	1-101-884-11	20	
C427, 428	ケミコン	3.3μF	25V	1-121-344-11	25	
C429, 430	〃	220μF	10V	〃 -420-11	40	
C431~434	〃	4.7μF	50V	〃 -395-11	25	

記号	品名			部品コード	定価	備考
C435	マイラ	0.0033μF	50V	1-105-667-12	20	機番201051以前
	〃	0.0068μF	〃	〃 -671-12	20	機番201051以降
C436	ケミコン	47μF	16V	1-121-409-11	35	
C437	〃	10μF	〃	〃 -471-11	20	
C501, 502	ケミコン	10μF	16V	1-121-471-11	20	
C503~505	マイラ	0.047μF	50V	1-105-841-12	20	
C507	〃	0.001μF	〃	〃 -821-12	20	
C508	スチロール	750PF	〃	1-103-722-11	20	
C509	マイラ	0.001μF	〃	1-105-821-12	20	
C510	〃	0.047μF	〃	〃 -841-12	20	
C511	〃	0.0047μF	〃	〃 -829-12	20	
C512	〃	0.015μF	〃	〃 -835-12	20	
C513	〃	0.001μF	〃	〃 -821-12	20	
C514	〃	0.015μF	〃	〃 -835-12	20	
C515	セラミック	100PF	〃	1-101-973-11	20	
C517	〃	200PF	〃	〃 -977-11	20	
C518	マイラ	0.01μF	〃	1-105-833-12	20	
C519	スチロール	470PF	〃	1-103-717-11	20	
C520	ケミコン	10μF	16V	1-121-471-11	20	
C521	マイラ	0.001μF	50V	1-105-821-12	20	
C522	ケミコン	3.3μF	〃	1-121-393-11	20	
C523	セラミック	0.02μF	25V	1-101-924-11	20	
C524	ケミコン	100μF	50V	1-121-415-11	30	
C525	〃	3.3μF	〃	〃 -393-11	20	
C526	マイラ	0.1μF	〃	1-105-845-12	20	
C527, 528	ケミコン	100μF	16V	1-121-415-11	30	
C529	スチロール	1000PF	50V	1-103-725-11	20	
C530~536	〃	2400PF	〃	〃 -734-11	20	
C537	〃	1000PF	〃	〃 -725-11	20	
C601, 651	ケミコン	3.3μF	25V	1-121-344-11	25	
C602, 652	〃	100μF	16V	〃 -415-11	30	
C701	ケミコン	1000μF	35V	1-121-388-11	140	
C702	〃	220μF	25V	〃 -422-11	50	
C703	〃	47μF	16V	〃 -409-11	35	
C704	〃	220μF	25V	〃 -422-11	50	
C705, 706	マイラ	0.022μF	200V	1-105-757-12	20	
C801	ケミコン	220μF	10V	1-121-420-11	40	

①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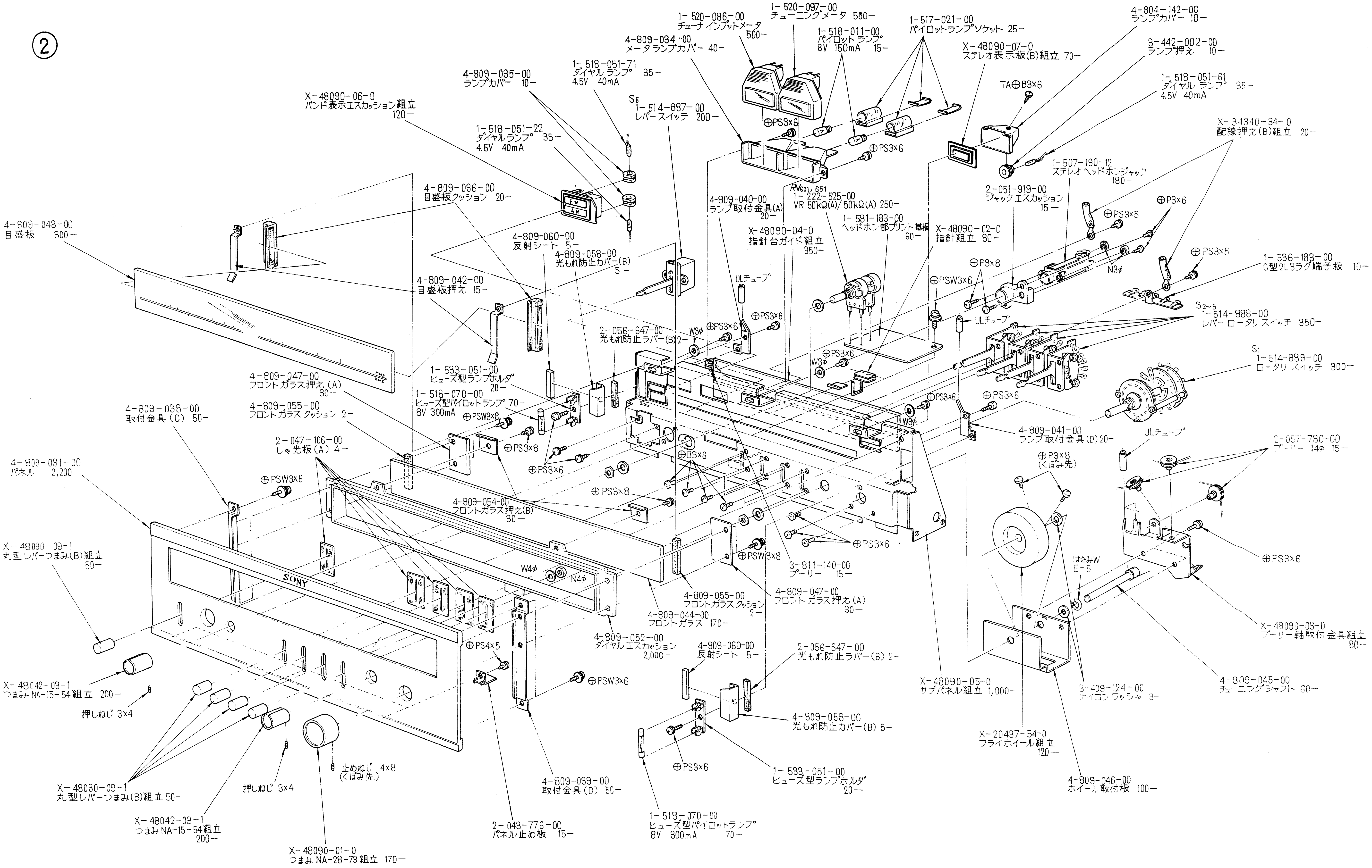
糸掛け説明紙 10ー
4-809-033-00
ケース 1,400ー
3-820-225-00
ナイロンワッシャ 4ー
2-066-107-00
ケース止めねじ 40ー
3-820-225-00
ナイロン ワッシャ 4ー
2-066-107-00
ケース止めねじ
40ー
4-809-051-00
底板 600ー
TA ⊕ B3×6
TA
⊕B3×6
⊕B4×12
⊕B4×12
TA⊕ B3×6
⊕B4×12
TA⊕ B3×6
0-051-263-00
ゴム足 30ー
⊕B4×12
0-051-263-00
ゴム足 30ー

②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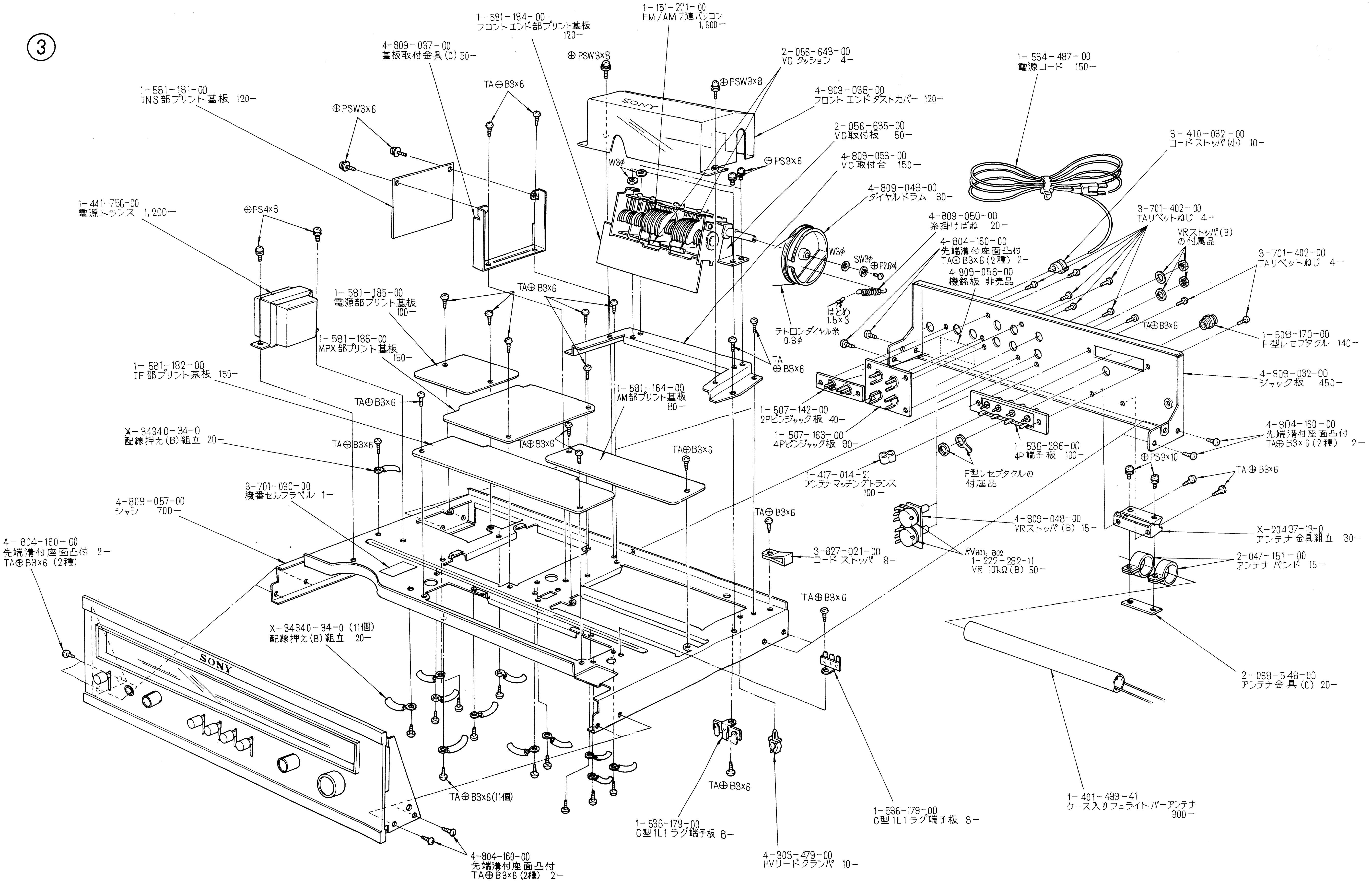
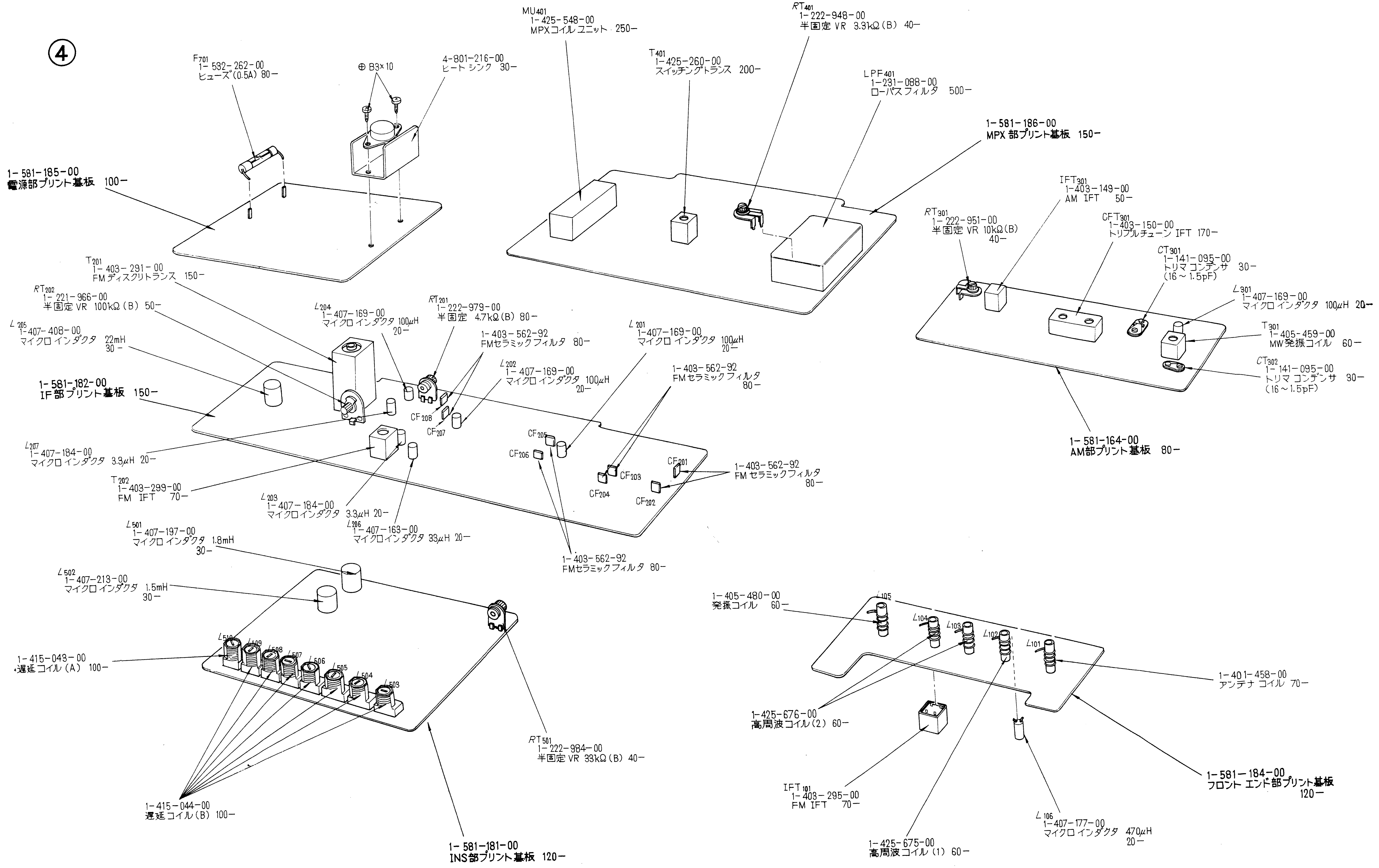
チューナ インプットメータ
500-
1- 520-097-00
チューニングメータ 500-
4-809-034 -00
メータランプカバー 40-
1- 518-011-00
パイロット ランプ
8V 150mA 15-
1-517-021-00
パイロットランプソケット 25-
X-48090-07-0
ステレオ表示板(B)組立 70-
TA⊕B3×6
4-804-142-00
ランプカバー 10-
3-442-002-00
ランプ押え 10-
1- 518-051-61
ダイヤル ランプ 35-
4.5V 40mA
X-34340-34-0
配線押え(B)組立 20-
4-809-035-00
ランプカバー 10-
1- 518-051-71
ダイヤル ランプ 35-
4.5V 40mA
S6
1- 514-887-00
レバースイッチ 200-
X-48090-06-0
バンド表示エスカッション組立
120-
1-518-051-22
ダイヤルランプ 35-
4.5V 40mA
⊕PS3×6
⊕PS3×6
FM
AM
4-809-036-00
目盛板クッション 20-
4-809-043-00
目盛板 300-
MHz
KHz
RV601, 651
1- 222-525-00
VR 50kΩ(A)/50kΩ(A) 250-
4-809-040-00
ランプ取付金具(A)
20-
1- 581-183-00
ヘッドホン部プリント基板
60-
X-48090-04-0
指針台ガイド組立
350-
X-48090-02-0
指針組立 80-
1-507-190-12
ステレオ ヘッドホンジャック
180-
2-051-919-00
ジャックエスカッション
15-
⊕PS3×5
⊕P3×6
N3φ
⊕PS3×5
1- 536-183-00
C型2L3ラグ端子板 10-
⊕P3×8
⊕PSW3×6
ULチューブ
ULチューブ
S2~5
1-514-888-00
レバー ロータリスイッチ 350-
S1
1- 514-889-00
ロータリ スイッチ 300-
4-809-060-00
反射シート 5-
4-809-058-00
光もれ防止カバー(B)
5-
4-809-042-00
目盛板押え 15-
2-056-647-00
光もれ防止ラバー(B) 2-
W3φ
⊕PS3×6
⊕PS3×6
⊕PS3×6
W3φ
1- 533-051-00
ヒューズ型ランプホルダ
20-
1- 518-070-00
ヒューズ型パイロットランプ 70-
8V 300mA
⊕PSW3×8
⊕PS3×8
⊕PS3×6
4-809-047-00
フロントガラス押え(A)
30-
4-809-055-00
フロントガラス クッション 2-
4-809-038-00
取付金具(C) 50-
2-047-106-00
しゃ光板(A) 4-
⊕PS3×6
W3φ
⊕PS3×6
4-809-041-00
ランプ取付金具(B) 20-
ULチューブ
2-057-730-00
プーリー 14φ 15-
⊕P3×8
(くぼみ先)
⊕B3×6
4-809-031-00
パネル 2,200-
⊕PSW3×6
⊕PS3×8
4-809-054-00
フロントガラス押え(B)
30-
⊕PS3×6
⊕PSW3×8
3-811-140-00
プーリー 15-
⊕PS3×6
X-48030-09-1
丸型レバーつまみ(B)組立
50-
SONY
W4φ
N4φ
4-809-055-00
フロントガラス クッション
2-
4-809-047-00
フロント ガラス押え(A)
30-
4-809-044-00
フロントガラス 170-
はさみW
E-5
X-48090-03-0
プーリー軸取付金具組立
80-
4-809-052-00
ダイヤルエスカッション
2,000-
⊕PS4×5
⊕PSW3×6
X-48042-03-1
つまみ NA-15-54組立 200-
押しねじ 3×4
4-809-060-00
反射シート 5-
2-056-647-00
光もれ防止ラバー(B) 2-
X-48090-05-0
サブパネル組立 1,000-
3-409-124-00
ナイロン ワッシャ 3-
4-809-045-00
チューニングシャフト 60-
4-809-058-00
光もれ防止カバー(B) 5-
X-20437-54-0
フライホイール組立
120-
⊕PS3×6
止めねじ 4×8
(くぼみ先)
X-48030-09-1
丸型レバーつまみ(B)組立 50-
押しねじ 3×4
1- 533-051-00
ヒューズ型ランプホルダ
20-
4-809-039-00
取付金具(D) 50-
4-809-046-00
ホイール取付板 100-
X-48042-03-1
つまみ NA-15-54組立
200-
2-043-776-00
パネル止め板 15-
1- 518-070-00
ヒューズ型パイロットランプ
8V 300mA 70-
X-48090-01-0
つまみ NA-28-73組立 170-

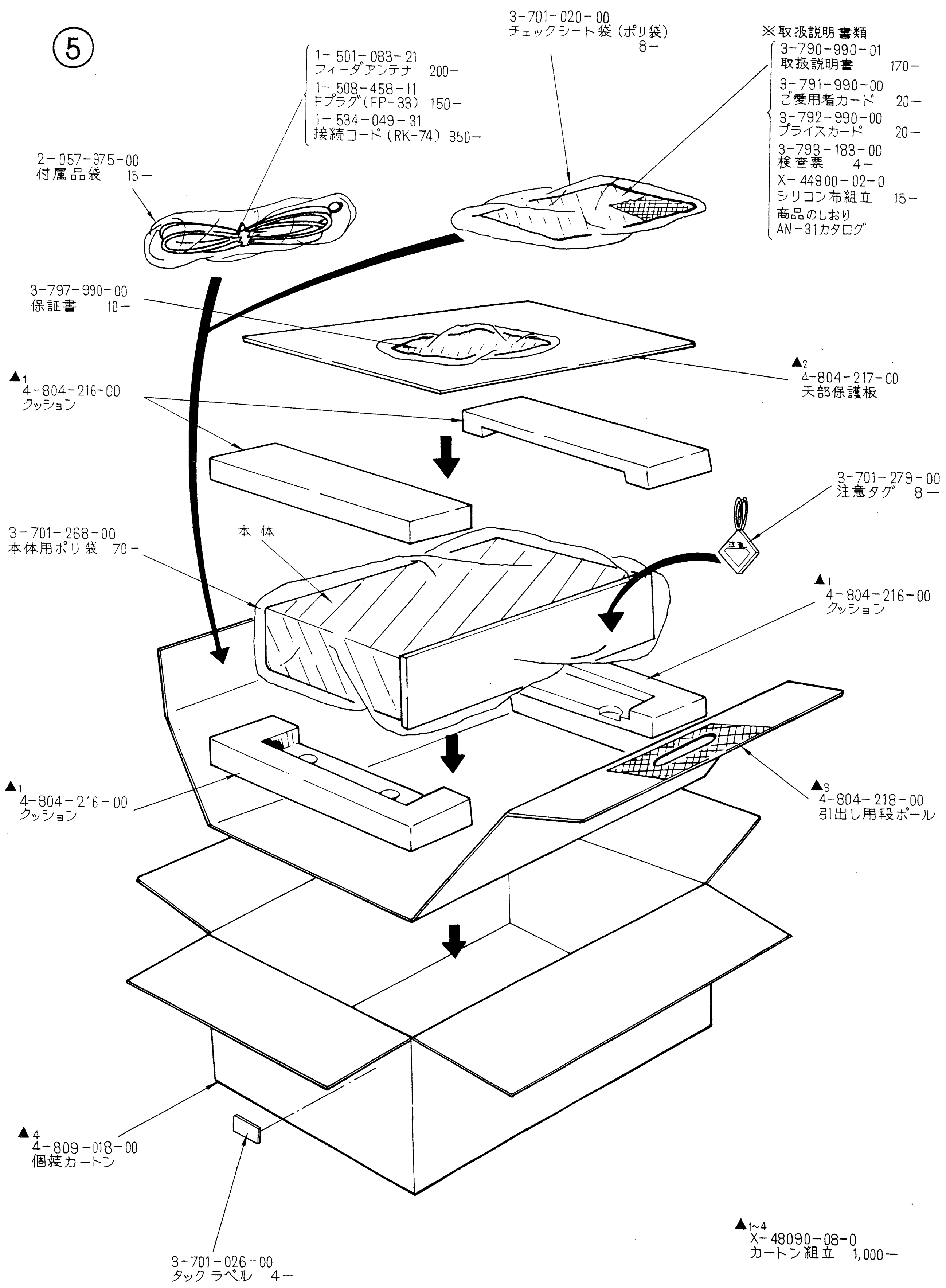
③


1-581-184-00
フロントエンド部プリント基板
120ー
1-151-221-00
FM/AM 7連バリコン
1,600ー
4-809-037-00
基板取付金具(C) 50ー
⊕PSW3×8
2-056-643-00
VC クッション 4ー
1-534-487-00
電源コード 150ー
TA⊕B3×6
⊕PSW3×8
4-803-038-00
フロントエンドダストカバー 120ー
1-581-181-00
INS部プリント基板 120ー
⊕PSW3×6
2-056-635-00
VC取付板 50ー
3-410-032-00
コードストッパ(小) 10ー
W3φ
⊕PS3×6
4-809-053-00
VC取付台 150ー
4-809-049-00
ダイヤルドラム 30ー
1-441-756-00
電源トランス 1,200ー
⊕PS4×8
4-809-050-00
糸掛けばね 20ー
3-701-402-00
TAリベットねじ 4ー
VRストッパ(B)
の付属品
W3φ
SW3φ
⊕P2.6×4
4-804-160-00
先端溝付座面凸付
TA⊕B3×6(2種) 2ー
3-701-402-00
TAリベットねじ 4ー
4-809-056-00
機銘板 非売品
1-581-185-00
電源部プリント基板
100ー
TA⊕B3×6
はとめ
1.5×3
テトロンダイヤル糸
0.3φ
TA⊕B3×6
1-508-170-00
F型レセプタクル 140ー
1-581-186-00
MPX部プリント基板
150ー
TA
⊕B3×6
1-581-182-00
IF部プリント基板 150ー
4-809-032-00
ジャック板 450ー
TA⊕B3×6
1-581-164-00
AM部プリント基板
80ー
1-507-142-00
2Pピンジャック板 40ー
1-507-163-00
4Pピンジャック板 90ー
X-34340-34-0
配線押え(B)組立 20ー
TA⊕B3×6
TA⊕B3×6
TA⊕B3×6
1-536-286-00
4P端子板 100ー
4-804-160-00
先端溝付座面凸付
TA⊕B3×6(2種) 2ー
⊕PS3×10
TA⊕B3×6
1-417-014-21
アンテナマッチングトランス
100ー
F型レセプタクルの
付属品
3-701-030-00
機番セルフラベル 1ー
4-809-057-00
シャシ 700ー
TA⊕B3×6
4-809-048-00
VRストッパ(B) 15ー
X-20437-13-0
アンテナ金具組立 30ー
4-804-160-00
先端溝付座面凸付 2ー
TA⊕B3×6 (2種)
3-827-021-00
コードストッパ 8ー
RV801, 802
1-222-282-11
VR 10kΩ(B) 50ー
2-047-151-00
アンテナバンド 15ー
TA⊕B3×6
SONY
X-34340-34-0 (11個)
配線押え(B)組立 20ー
2-068-548-00
アンテナ金具(C) 20ー
TA⊕B3×6(11個)
TA⊕B3×6
1-536-179-00
C型1L1ラグ端子板 8ー
1-536-179-00
C型1L1ラグ端子板 8ー
1-401-439-41
ケース入りフェライトバーアンテナ
300ー
4-804-160-00
先端溝付座面凸付
TA⊕B3×6(2種) 2ー
4-303-479-00
HVリードクランパ 10ー

④


F701 1-532-262-00 ヒューズ(0.5A) 80−
⊕ B3×10
4-801-216-00 ヒート シンク 30−
1-581-185-00 電源部プリント基板 100−
MU401 1-425-548-00 MPXコイル ユニット 250−
T401 1-425-260-00 スイッチングトランス 200−
RT401 1-222-948-00 半固定 VR 3.3kΩ(B) 40−
LPF401 1-231-088-00 ローパスフィルタ 500−
1-581-186-00 MPX 部プリント基板 150−
T201 1-403-291-00 FMディスクリトランス 150−
RT202 1-221-966-00 半固定 VR 100kΩ(B) 50−
L205 1-407-408-00 マイクロ インダクタ 22mH 30−
1-581-182-00 IF部プリント基板 150−
L204 1-407-169-00 マイクロ インダクタ 100μH 20−
RT201 1-222-979-00 半固定 4.7kΩ(B) 80−
1-403-562-92 FMセラミック フィルタ 80−
L202 1-407-169-00 マイクロ インダクタ 100μH 20−
L201 1-407-169-00 マイクロ インダクタ 100μH 20−
1-403-562-92 FMセラミック フィルタ 80−
CF208
CF207
CF205
CF206
CF201
CF203
CF204
CF202
1-403-562-92 FM セラミックフィルタ 80−
L207 1-407-184-00 マイクロ インダクタ 3.3μH 20−
T202 1-403-299-00 FM IFT 70−
L203 1-407-184-00 マイクロインダクタ 3.3μH 20−
L206 1-407-163-00 マイクロインダクタ 33μH 20−
1-403-562-92 FMセラミックフィルタ 80−
IFT301 1-403-149-00 AM IFT 50−
RT301 1-222-951-00 半固定 VR 10kΩ(B) 40−
CFT301 1-403-150-00 トリプルチューン IFT 170−
CT301 1-141-095-00 トリマ コンデンサ 30− (16～1.5pF)
L301 1-407-169-00 マイクロ インダクタ 100μH 20−
T301 1-405-459-00 MW発振コイル 60−
CT302 1-141-095-00 トリマ コンデンサ 30− (16～1.5pF)
1-581-164-00 AM部プリント基板 80−
L501 1-407-197-00 マイクロ インダクタ 1.8mH 30−
L502 1-407-213-00 マイクロ インダクタ 1.5mH 30−
1-415-043-00 遅延コイル(A) 100−
L510
L509
L508
L507
L506
L505
L504
L503
1-415-044-00 遅延コイル(B) 100−
RT501 1-222-984-00 半固定 VR 33kΩ(B) 40−
1-581-181-00 INS部プリント基板 120−
1-405-480-00 発振コイル 60−
L105
L104
L103
L102
L101
1-401-458-00 アンテナ コイル 70−
1-425-676-00 高周波コイル(2) 60−
IFT101 1-403-295-00 FM IFT 70−
1-425-675-00 高周波コイル(1) 60−
L106 1-407-177-00 マイクロ インダクタ 470μH 20−
1-581-184-00 フロント エンド部プリント基板 120−

⑤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フィーダアンテナ 200-
1-508-458-11
Fプラグ(FP-33) 150-
1-534-049-31
接続コード(RK-74) 350-
3-701-020-00
チェックシート袋(ポリ袋) 8-
※取扱説明書類
3-790-990-01
取扱説明書 170-
3-791-990-00
ご愛用者カード 20-
3-792-990-00
プライスカード 20-
3-793-183-00
検査票 4-
X-44900-02-0
シリコン布組立 15-
商品のしおり
AN-31カタログ
2-057-975-00
付属品袋 15-
3-797-990-00
保証書 10-
▲2
4-804-217-00
天部保護板
▲1
4-804-216-00
クッション
3-701-279-00
注意タグ 8-
3-701-268-00
本体用ポリ袋 70-
本体
▲1
4-804-216-00
クッション
▲1
4-804-216-00
クッション
▲3
4-804-218-00
引出し用段ボール
▲4
4-809-018-00
個装カートン
3-701-026-00
タックラベル 4-
▲1~4
X-48090-08-0
カートン組立 1,000-

ソニー株式会社 1C0307-EP379